A NEWSPAPER FOR THE ARCHITECT & CONSTRUCTOR

THE BUILDER

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

No. 6061 117th Year FRIDAY, MAY 29, 1959 ONE SHILLING AND SIXPENCE

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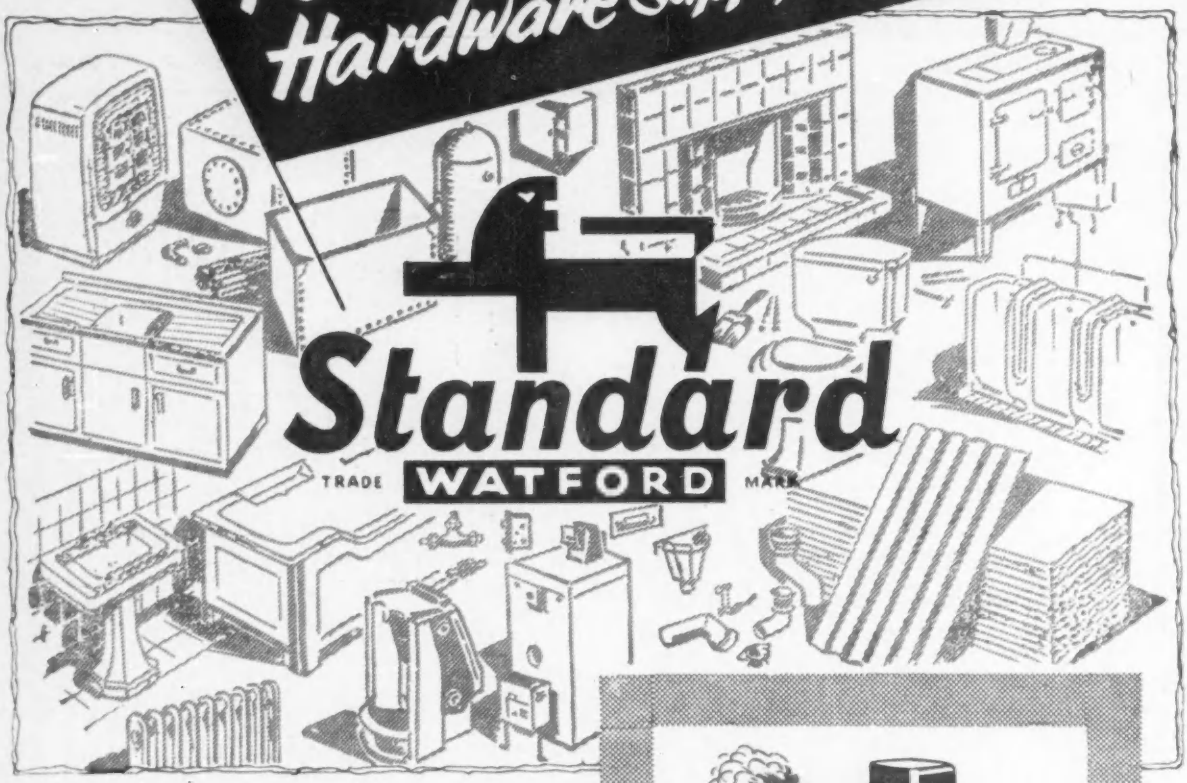

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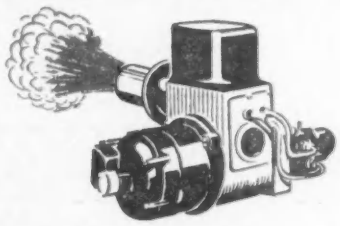

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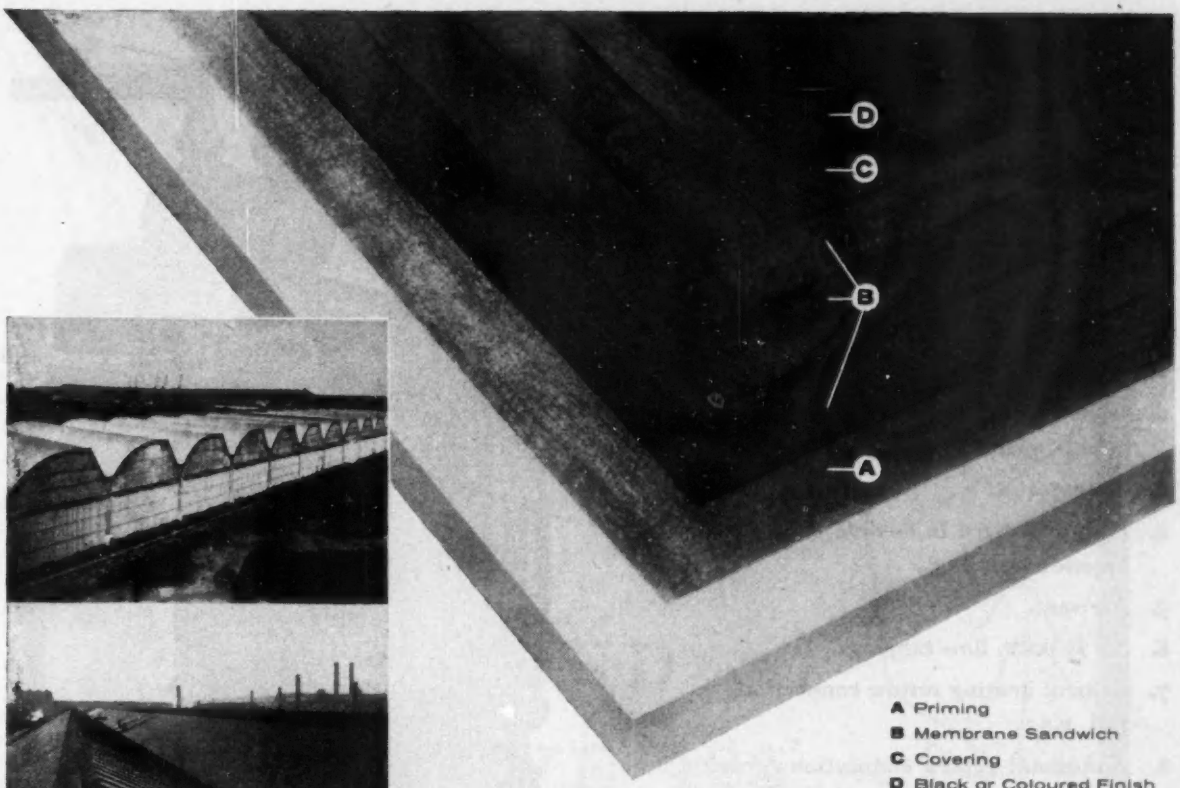

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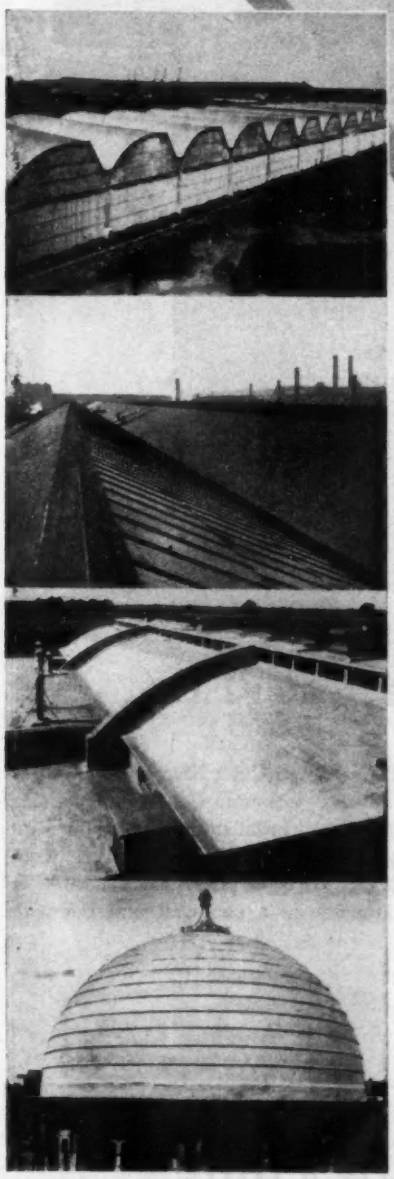

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On the left we show 4 examples of roofs which have been waterproofed with the Evode System. These illustrate the variety of jobs which are handled successfully by our contracts department.

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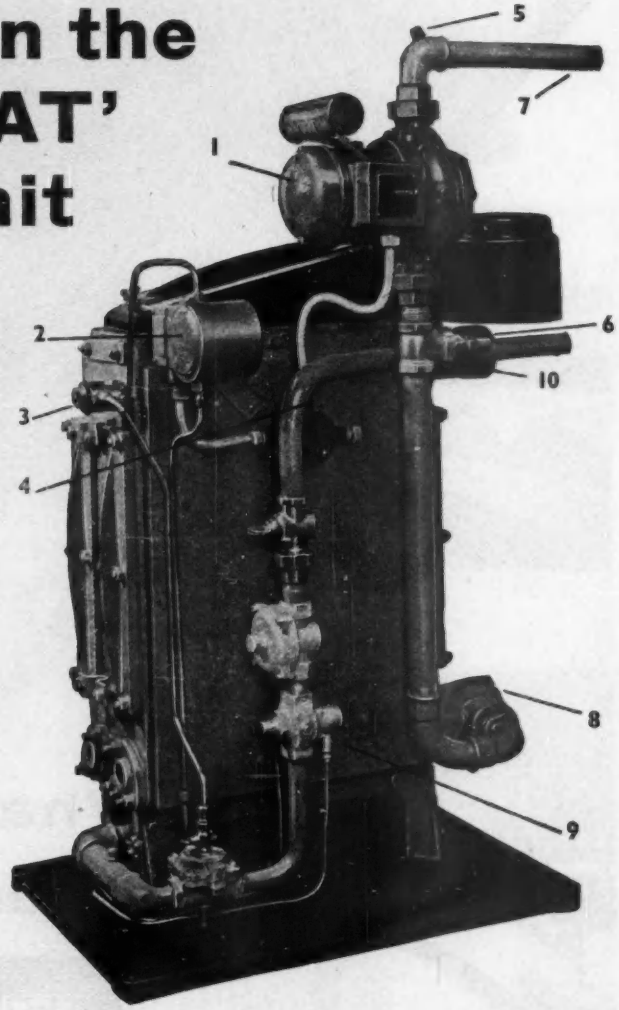
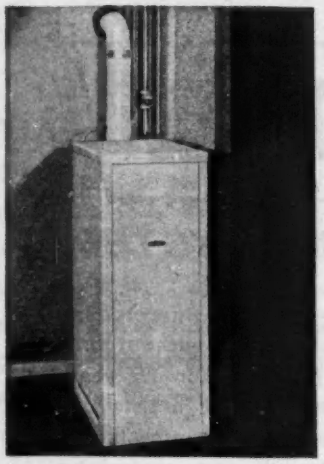
H.W. 116

A

What's what in the new 'DIPLOMAT' Small Bore Unit



1. Sigmund THERMOPAK accelerator pump.
2. HORSTMANN clock controller incorporating 5 amp. switch.
3. Thermostat.
4. Unit pre-wired in flexible conduit to junction box.
5. Air vent.
6. 2 x 1½ B.S.P. flow tappings.
7. Central heating return connection 1 in. B.S.P.
8. Additional return connection (gravity circuit).
9. Thermo/electric flame safety device.
10. Lock shield valve.



LEFT: *The totally enclosed 'Diplomat' Small Bore Unit in a kitchen setting.*

New 'Diplomat' 30, 44 and 66 Gas-fired Small Bore Units have *all* their works inside *one* good-looking case. Like all 'Diplomat' Gas-fired Boilers, all servicing and maintenance can be carried out from the front. Installation is straightforward as they are conceived and designed for easy fixing. Electrical connections between the time switch and accelerator are pre-wired to cut down installation work. A 'Diplomat' 100 Small Bore Unit is also available as a packaged unit but with accelerator mounted behind the casing.

LIST PRICES

30,000 B.t.u/hr : £90. 0. 0.	44,000 B.t.u/hr : £100. 0. 0.
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'DIPLOMAT' Small Bore Units

models of self-control

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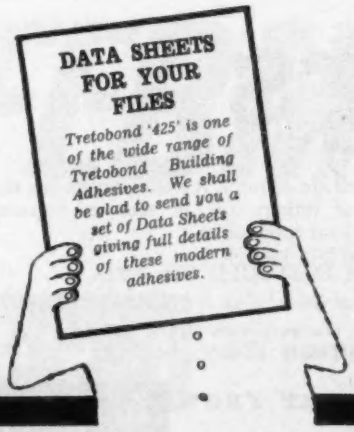

. . . no matter how porous or heavy the insulation board, TRETOBOND '425' will give a powerful, immediate bond without the need for shoring—in one application! Fibreboard, hardboard, plasterboard, asbestos board, wood, heavy-weight plaster tiles—all these materials can be bonded with TRETOBOND '425' to plaster, wood, metal, brick, asbestos, concrete and other building surfaces. For a quick and *permanent* bond, use TRETOBOND '425' on your next job.

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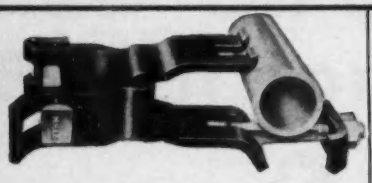
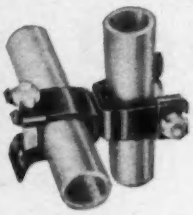


2" STANDARD 90° CLIP
Standard right-angle connection for all 2" O.D. tubing.



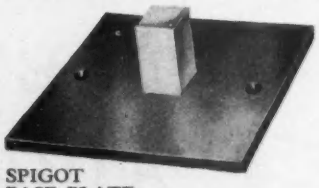
2" x 2"
SWIVEL CLIP
Connects struts, ties and diagonal bracings at any angle.

2" PUTLOG CLIP
For non-load carrying connections at right angles between putlogs and ledgers.

Patent

STRUCTURAL HEAD CLIP
3" x 4"
Attaches 4" flange of R.S.J. to 3" tube. Also 2" x 3" attaches 3" flange of R.S.J. to 2" tube.

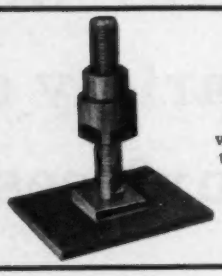
2" STANDARD END-TO-END COUPLER
Joins two lengths of standard scaffold tubing.



SPIGOT BASE PLATE
Foundation for standards. Evenly distributes load.

Scaffold

STEEL PUTLOG END
Standard fitting for converting 5' or 6' lengths of scaffold tube to putlogs.



3" SCREW JACK BASE
For all heavy work, where 3" tubing is used.

2" FORK-HEAD REVEAL PIN
Fitted with swivel Fork-Head for timber beams.

Fittings

For rapid assembly, economy and sheer strength, builders the world over use MILLS Patent Scaffold Fittings. Made from high grade spring steel, there's a MILLS fitting for every scaffold application. And the only tool required to secure the entire range of 2 in. fittings is a standard ½ in. spanner.
MILLS couplers comply with B.S. 1139-1951, and nuts and bolts are galvanised against corrosion. Spares are available for immediate delivery. A leaflet illustrating the complete range of fittings will be sent on request. Ring or write for your copy today.

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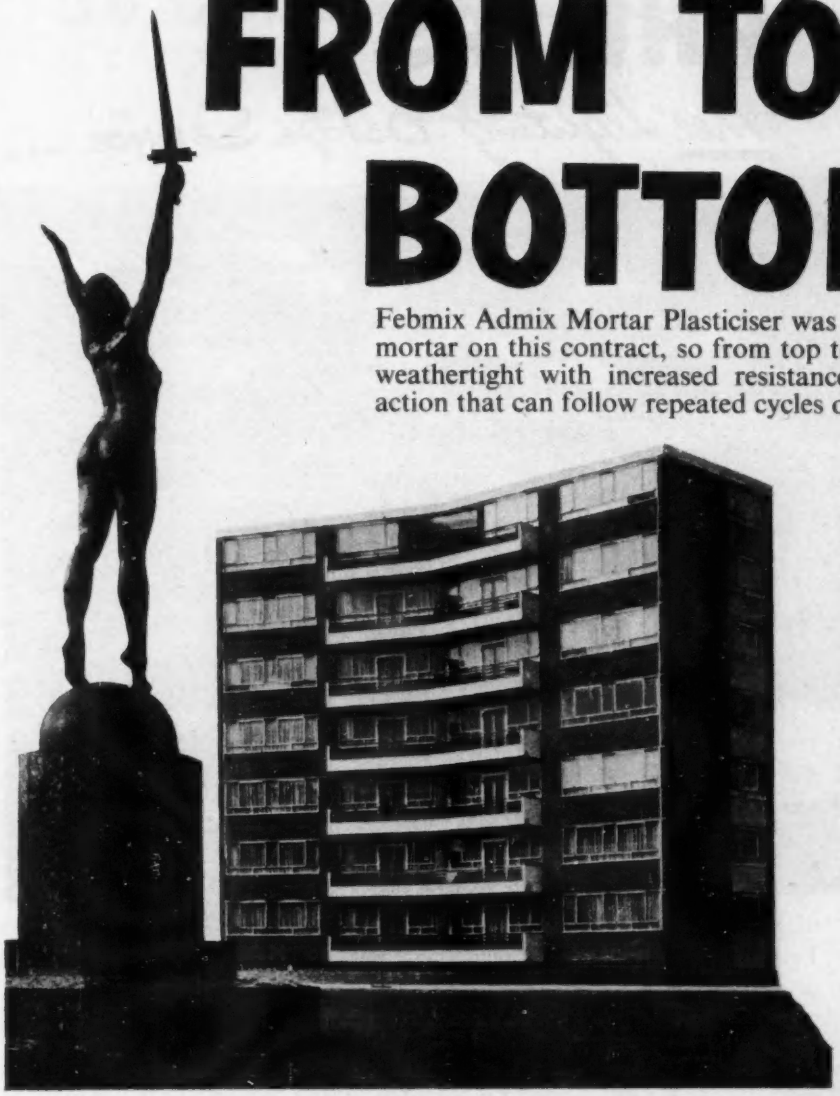
FROM TOP TO BOTTOM

Febmix Admix Mortar Plasticiser was used in the bricklaying mortar on this contract, so from top to bottom the joints are weathertight with increased resistance to the disintegrating action that can follow repeated cycles of freezing and thawing.



Bricklayers also liked the high degree of plasticity obtained from the use of Febmix Admix, the improved workability greatly reducing the labour effort in erection.

Architect:
Oscar Garry & Partners

Contractors:
Howard Farrow, Ltd.

Chessington Lodge, Finchley.

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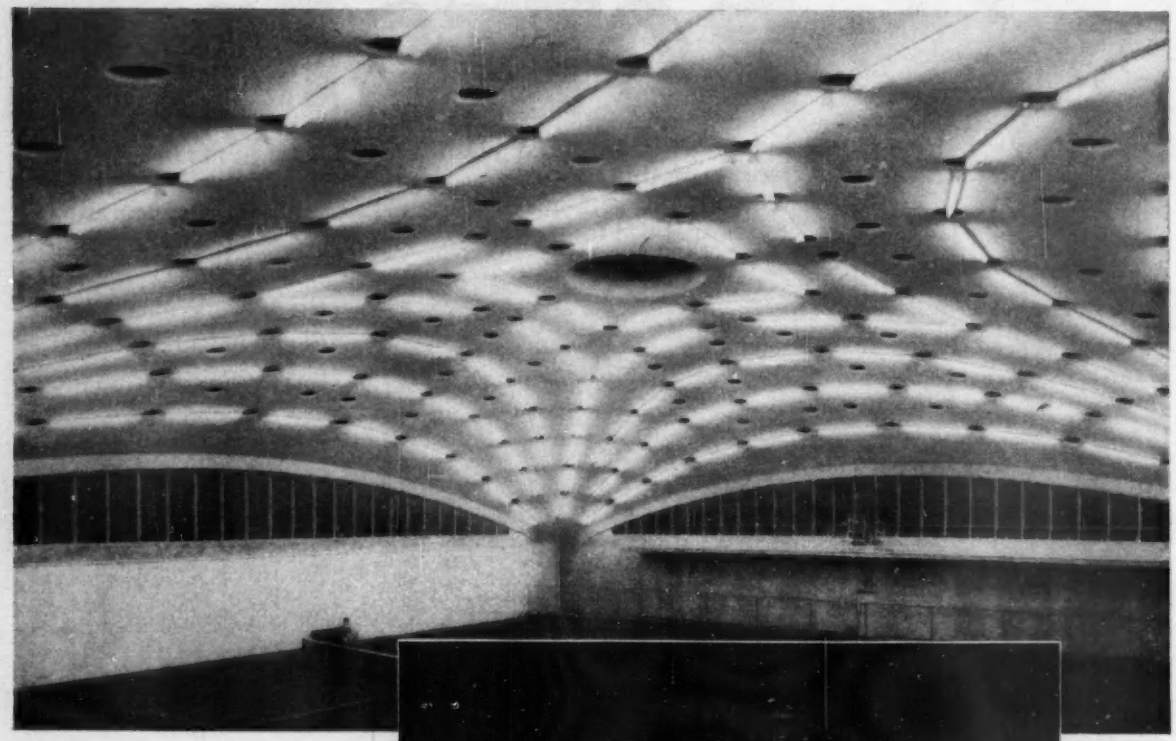
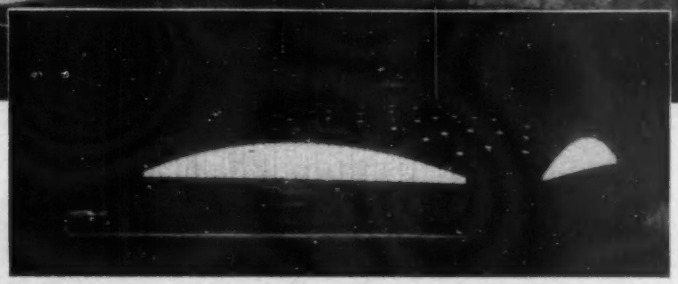


New Covered Courts at All England Lawn Tennis and Croquet Club, Wimbledon.



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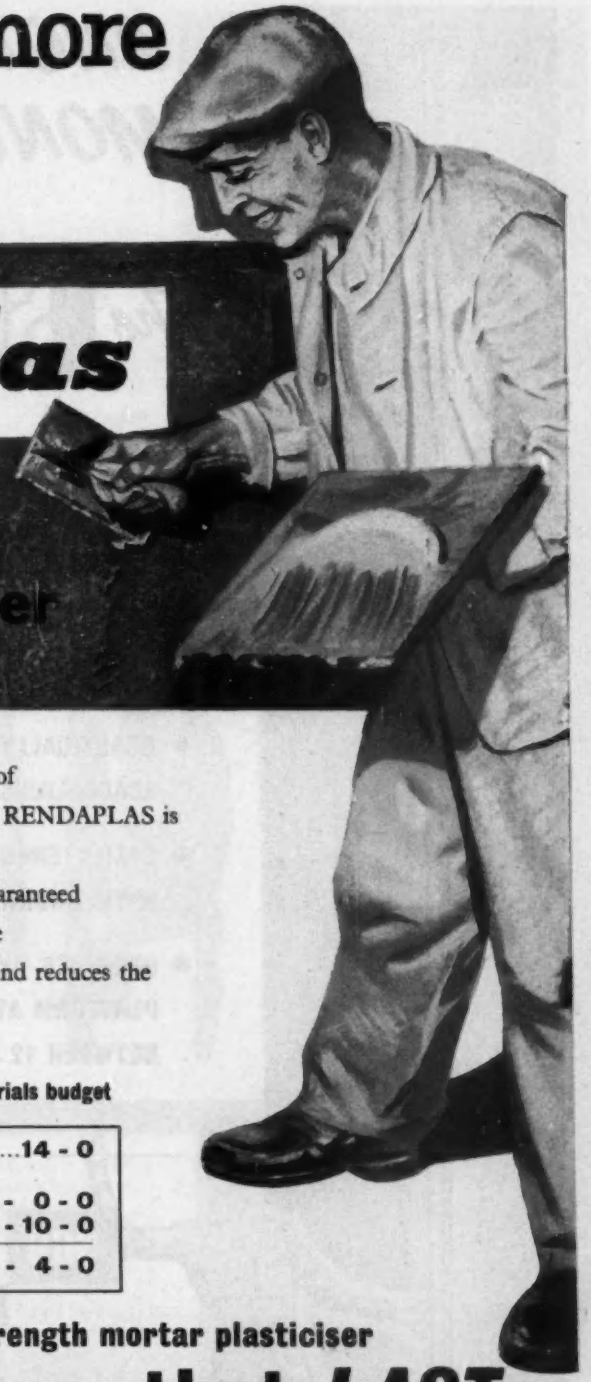

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RENDAPLAS costs less than 4% of your total materials budget

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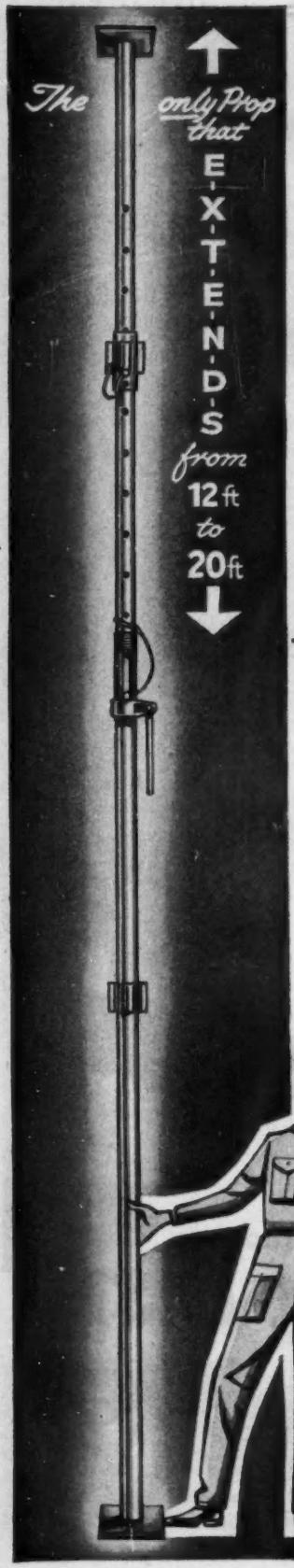

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The SGB HIGH LIFT PROP

(Reg. Design No. 886552 Patents Pending)

SO SIMPLE — SO SPEEDY!

THE NEW SGB HIGH LIFT PROP has been primarily designed to support Beams, Soffits and Barrel-vault Roofs at high levels beyond the range of standard Props—but the wide adjustment range makes it useful for so many other jobs.

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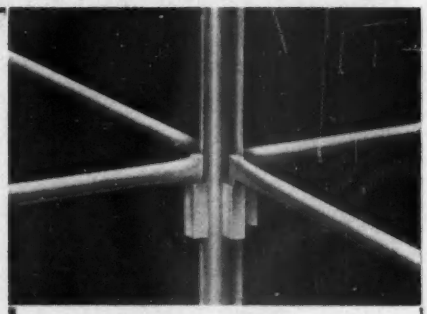

SIMPLE, SPEEDY LACING is an outstanding feature of the **SGB HIGH LIFT PROP.** This illustration shows the special Lacing Bars fitted in the Lacing Sockets.

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Providing the only *permanent* system of sash-hanging—Rhodes' chains

- Eliminate future sash line maintenance costs
- Prevent damage to wood and paintwork
- Avoid risk of personal injury through breaking sash cords

Simple to fit, they ensure smooth and easy running sashes from the moment they are installed ... the first cost is the last cost.

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The 644 pulley has a solid brass faceplate and wheel, and a rotating automatically lubricated anti-friction steel sleeve-bearing on a fixed G.M. axle. The sash chains are made of rust-proofed Sheffield steel links, assembled with G.M. rivets.

For sashes up to 50 lb. specify No. 55 chain with the 1¾ in. pulley.

For sashes up to 70 lb. specify No. 44 chain with the 2 in. pulley.

For sashes up to 112 lb. specify No. 33b chain with the 2½ in. pulley.

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Standard pattern square weights suitable for cord or chain supplied in the following measurements:—

3 - 9 lb.	—	1½" x 1½"
9½ - 13½ lb.	—	1½" x 1½"
14 - 20 lb.	—	1½" x 1½"
20½ - 27 lb.	—	1½" x 1½"

Makeweight collars

½ lb.	—	1½" x 1½"
1 lb.	—	1½" x 1½"

Specially cast lead or iron weights can also be supplied in square, rectangular or round sectional measurements to requirements.

Other fittings include Chain Window Pulls for easy opening and closing of top window sashes, the "Unocatch" and "Duocatch" Burglar-proof Sash fasteners, Sash furniture, "Stayput" Friction Stay for anything on hinges, Track for laterally sliding windows and doors. Chains for all purposes.

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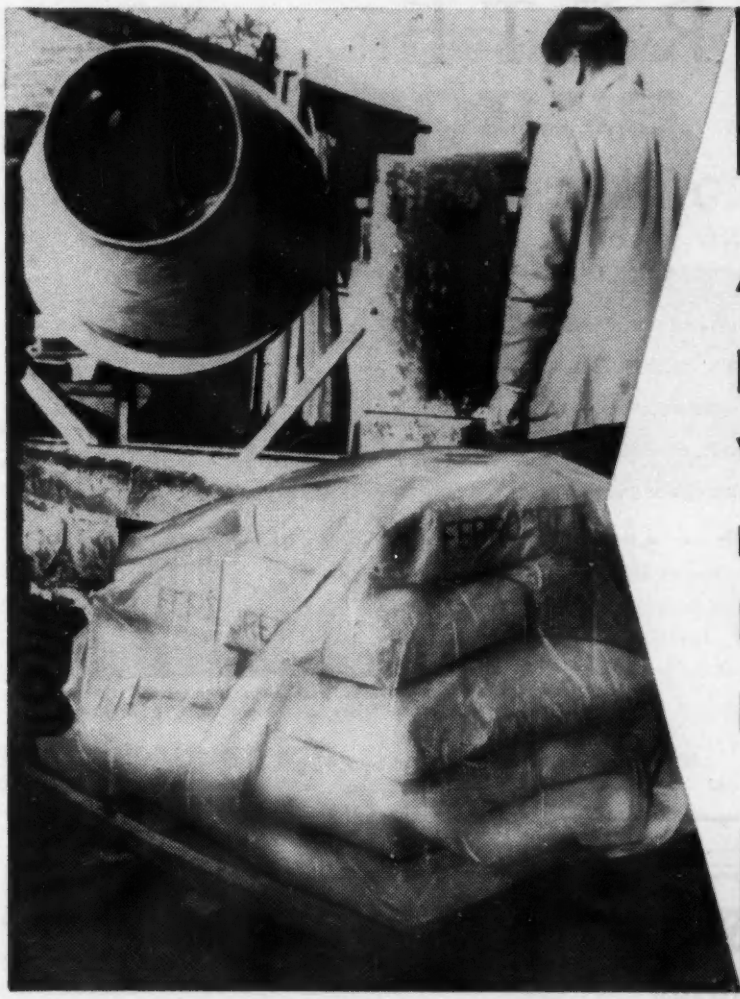


All weather protection with film made from BAKELITE TRADE MARK Polyethylene

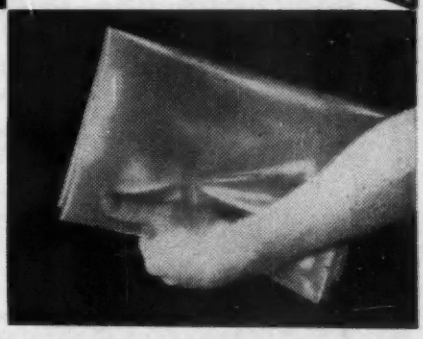
Modern builders are quick to appreciate the value of modern methods and materials. Replacing heavy and expensive cover sheets with polyethylene film is just one example.

Polyethylene film is tough, light and inexpensive. It is compact when folded (see photograph), and above all, it gives complete weather protection. Its lack of weight and bulk makes effective covering simple and rapid, and its transparency allows stocks to be checked at a glance. The low cost of film made from BAKELITE Polyethylene is a further reason for using this versatile material.

OTHER APPLICATIONS IN BUILDING

In addition to replacing conventional coverings, film can be used for lining concrete moulds; waterproof membranes in path and road laying; protecting concrete when drying out; moisture barriers for shuttering, and as temporary windbreaks or glazing to prevent bad weather hold-ups. The film is available in any length in handy rolls of various widths.

Write today for further details and a list of film manufacturers.



This small package of polyethylene film was used to cover the cement bags above.

BAKELITE LIMITED

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12-18 GROSVENOR GARDENS · LONDON SW1 · SLOane 0898

Bakelite Limited manufacture an extensive range of plastics materials and maintain a technical service unequalled in the industry. No matter what your plastics problems, this service is at your disposal. SLOane 0898 is the telephone number.

TGA P919

GLASCRETE

BLOCK MULLION WINDOW

with

CONCRETE CLADDING PANELS

•

The GLASCRETE window illustrated comprises purpose-made moulded casing block mullions with *in situ* reinforced concrete cores and ornamental concrete cladding panels between heads and cills.

All the units are cast in Portland Stone colour and provide a pleasing and clean fenestration.

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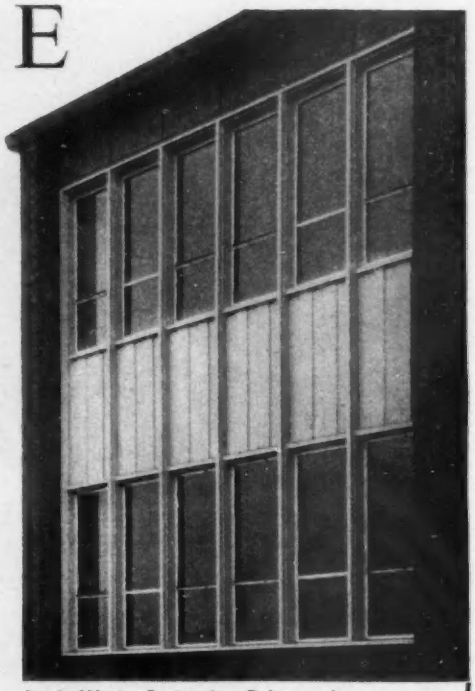

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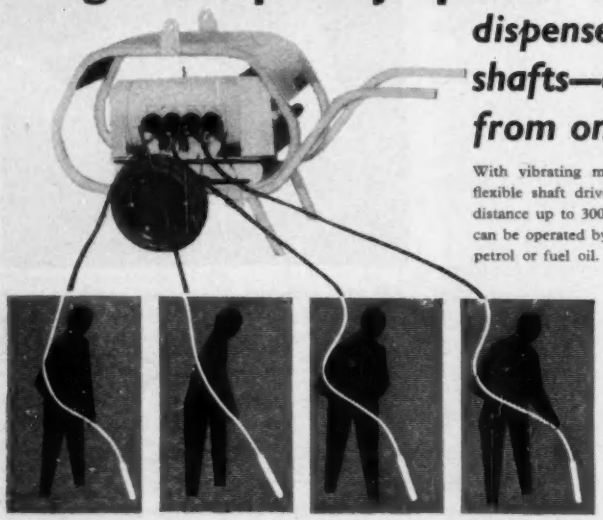

With vibrating motor actually built into the poker, the Johnson *Multibrator* dispenses with flexible shaft drive between motor and poker. Using low voltage, it can be operated at any distance up to 300 ft. from prime mover. Four 2¼" diameter pokers or two 3½" diameter pokers can be operated by standard *Multibrator* Frequency Changer. The *Multibrator* is independent of petrol or fuel oil.

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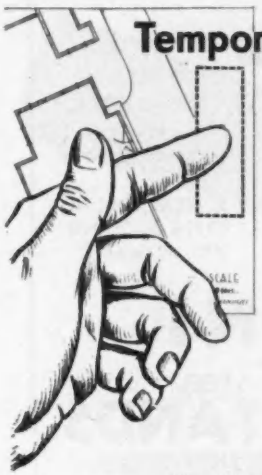

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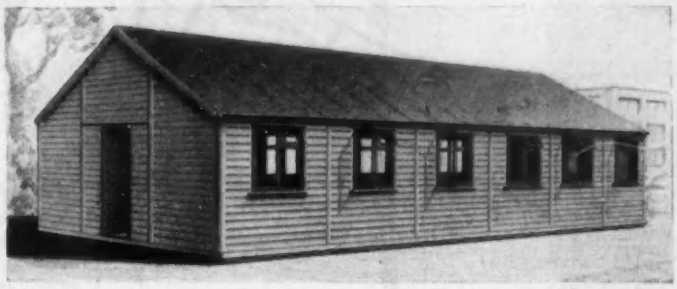

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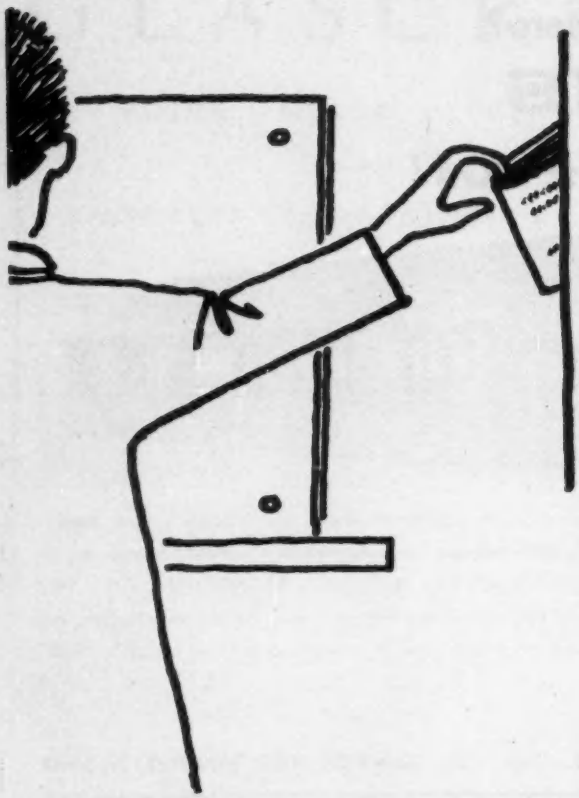

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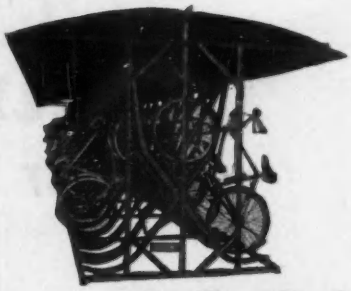

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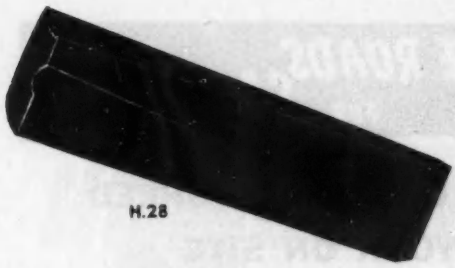

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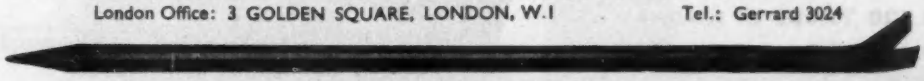

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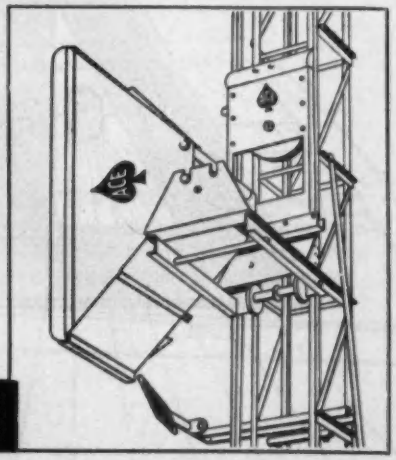

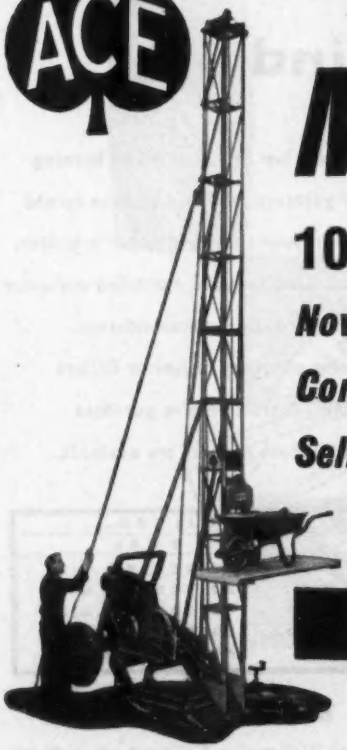

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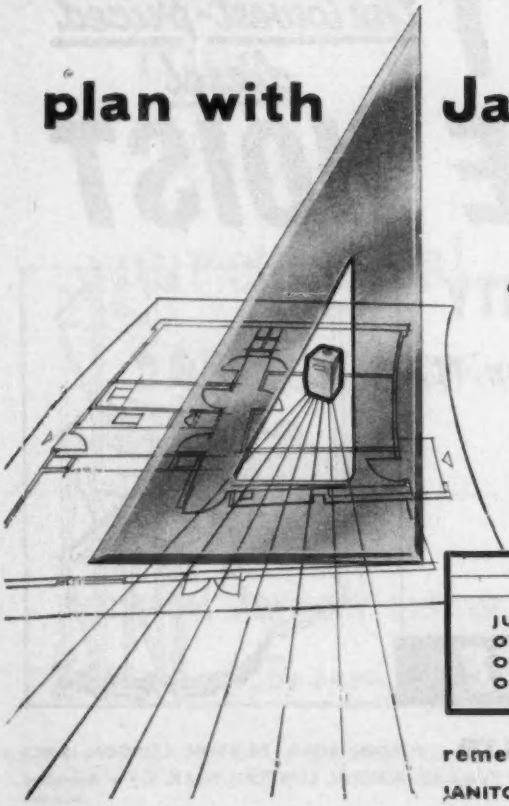

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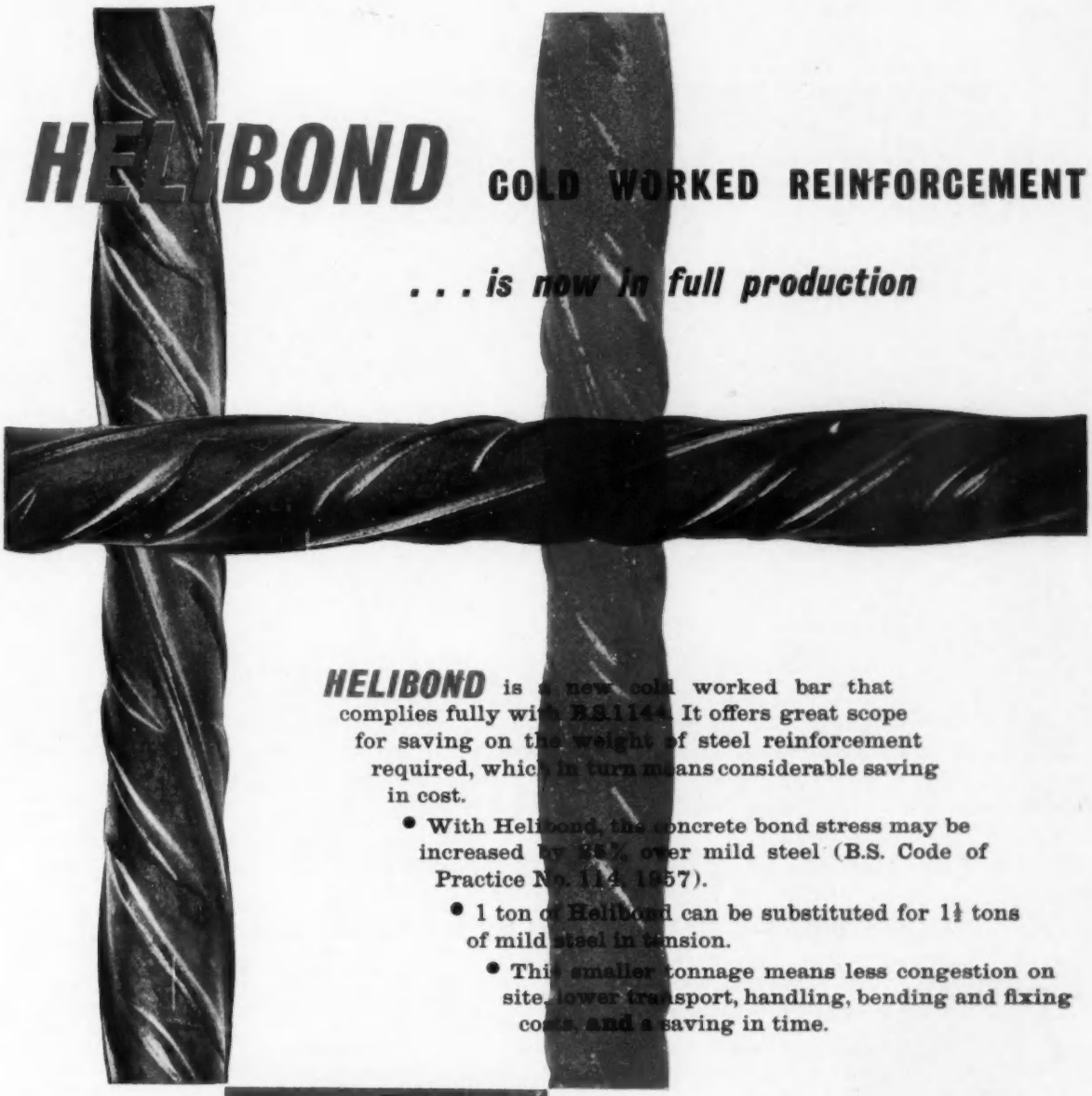

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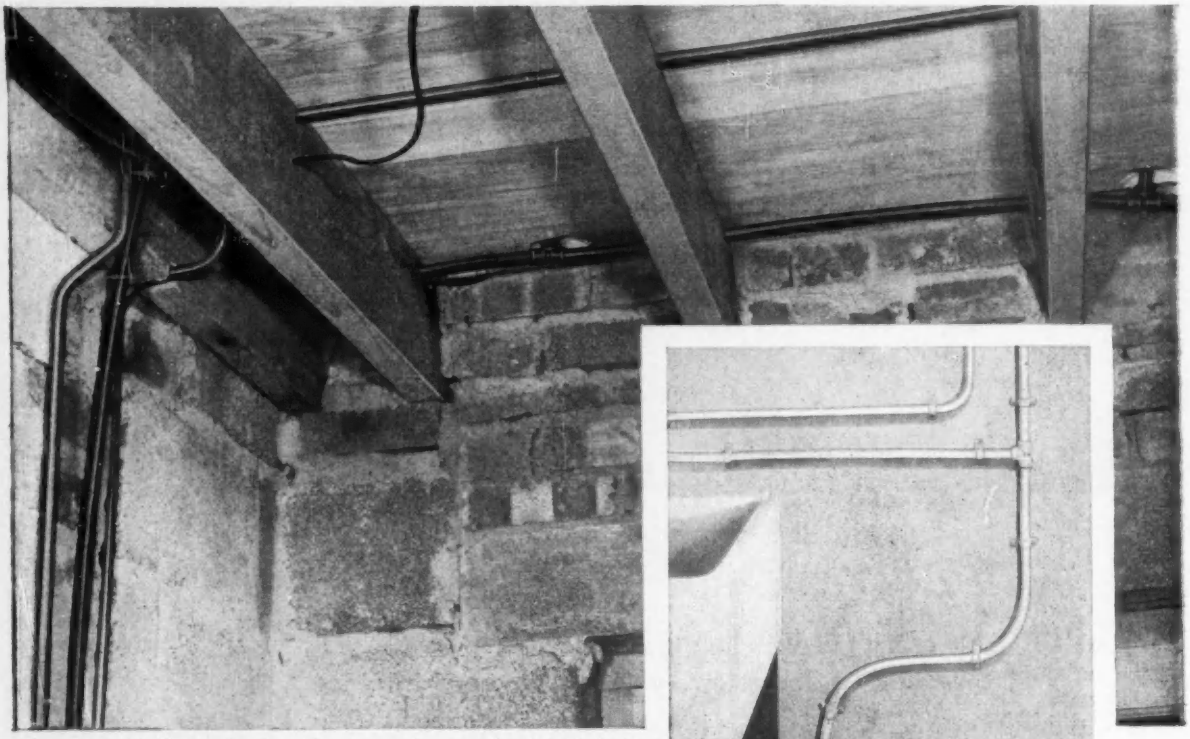
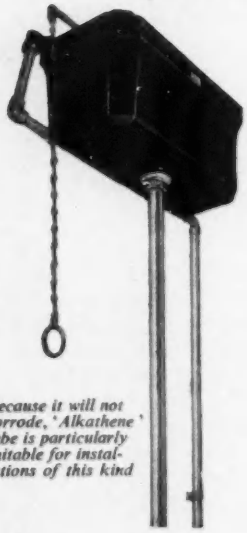


Two views of 'Alkathene' tube cold water supplies jointed with 'Alkalite' fittings on the Melksham U.D.C. housing estate. The architect was Mr. N. H. Cooper, M.I.Mun.E., A.R.I.C.S. The contractors were T. F. Brain & Co., Bath.

Yet another housing estate ensures burst-free plumbing with 'Alkathene' tube



Because it will not corrode, 'Alkathene' tube is particularly suitable for installations of this kind

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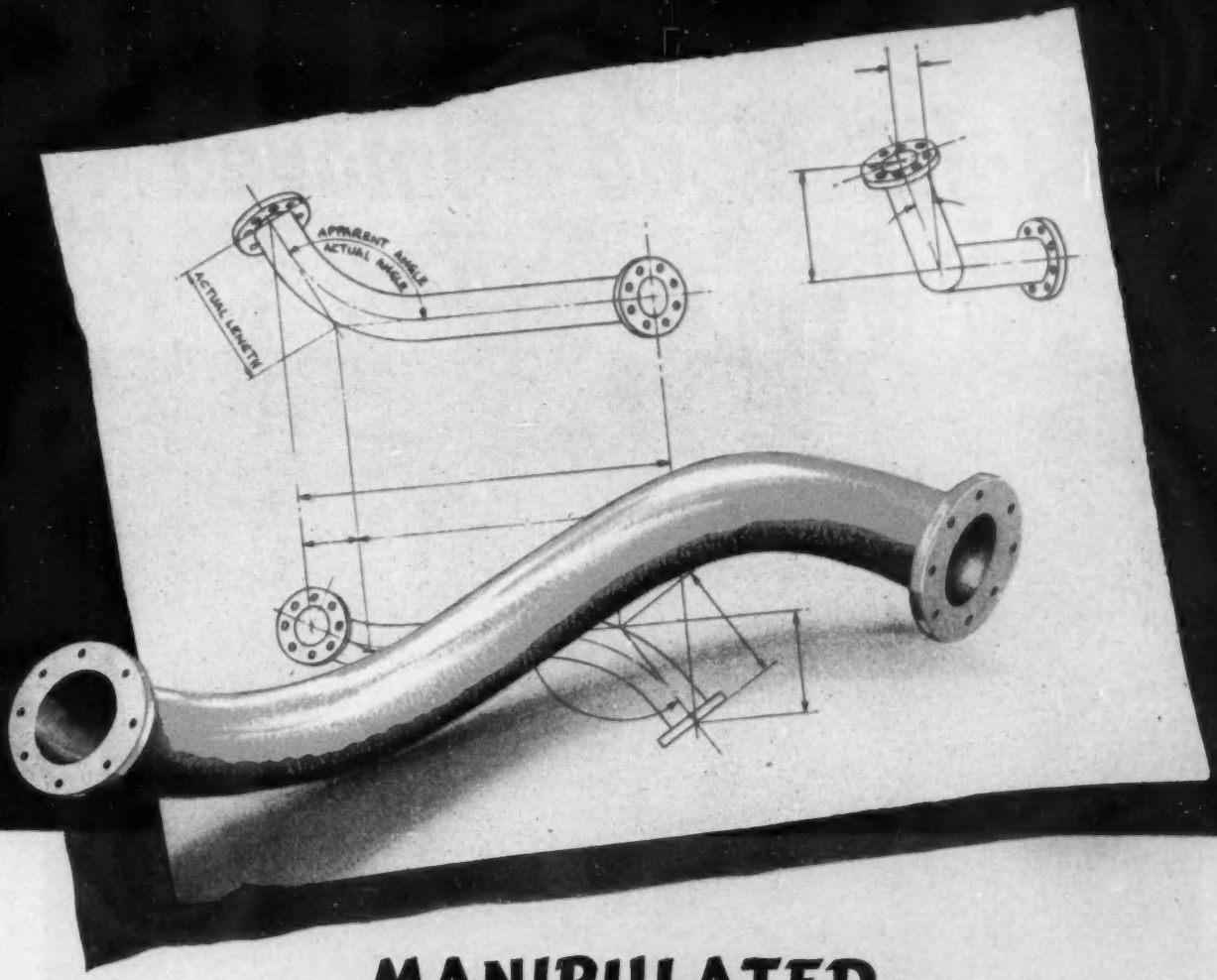

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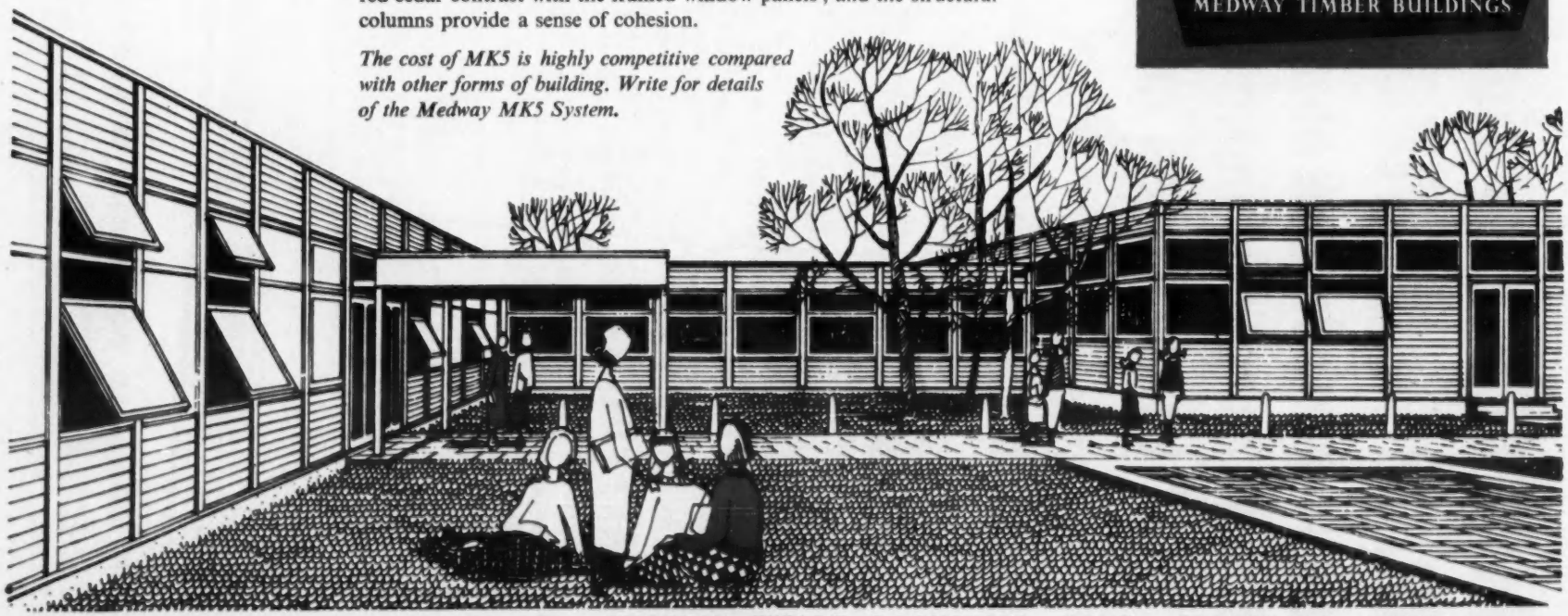

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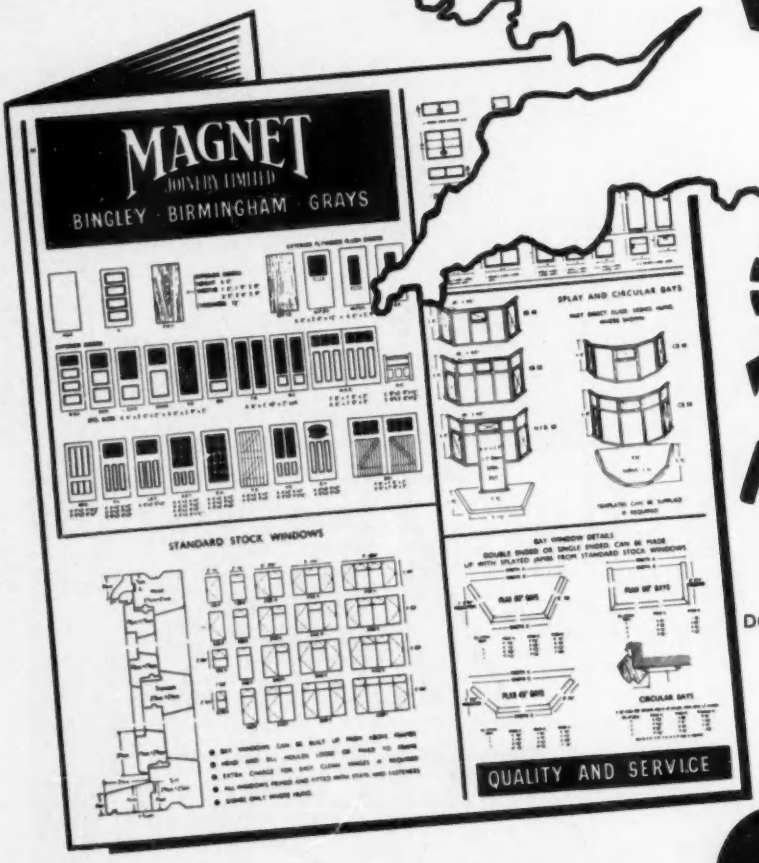

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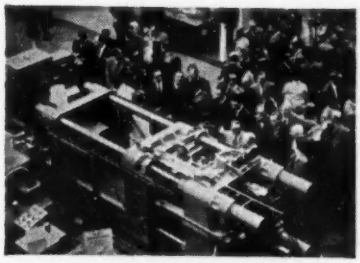

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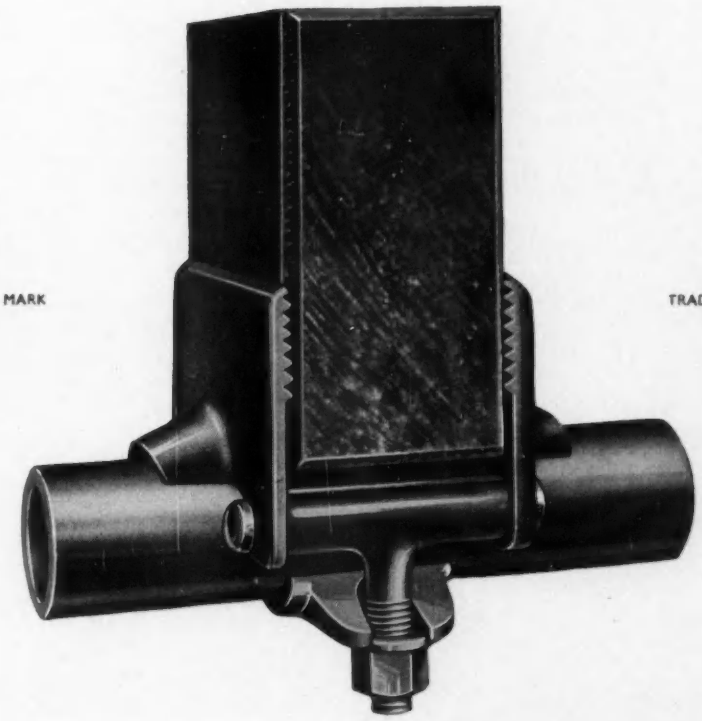

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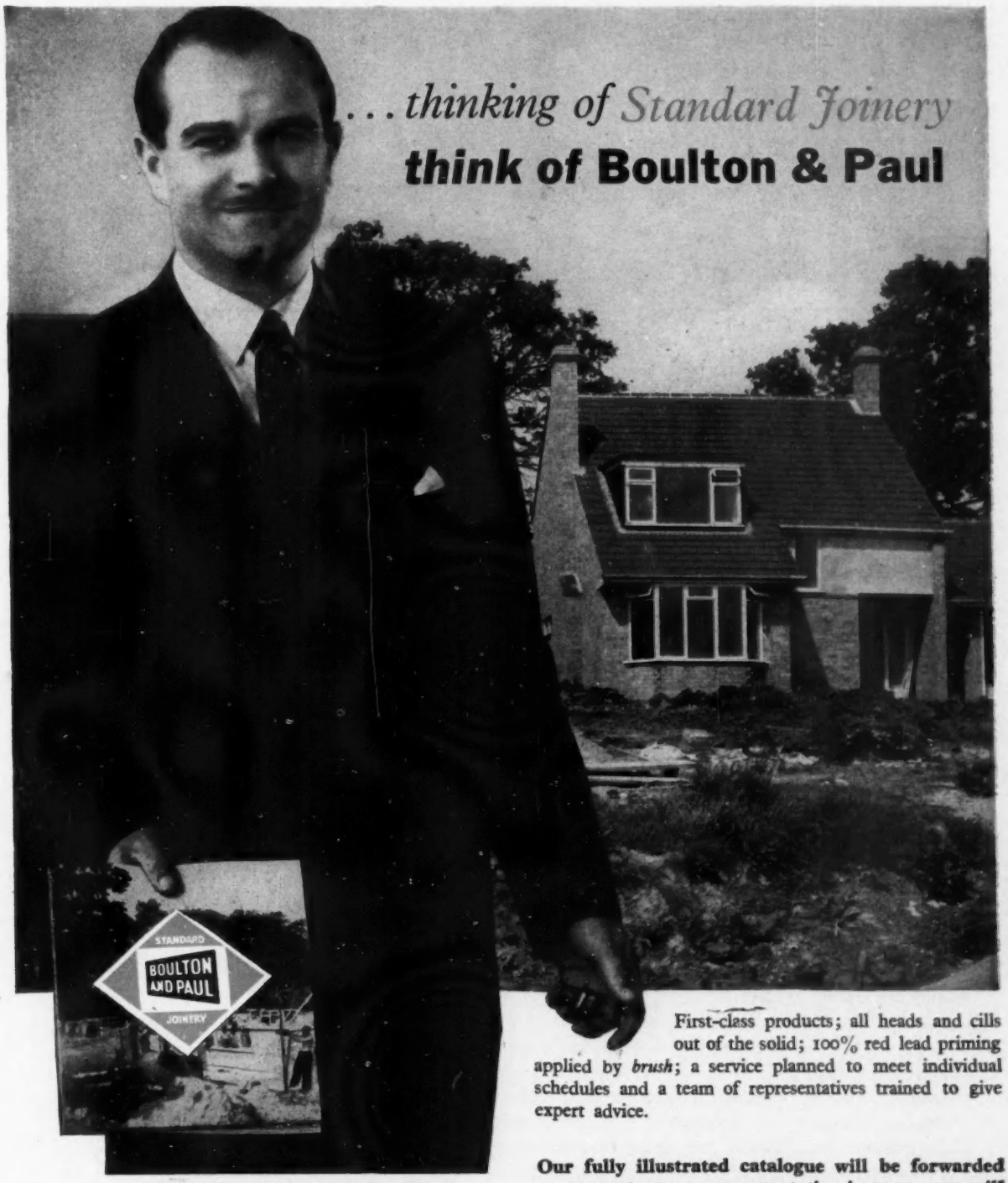

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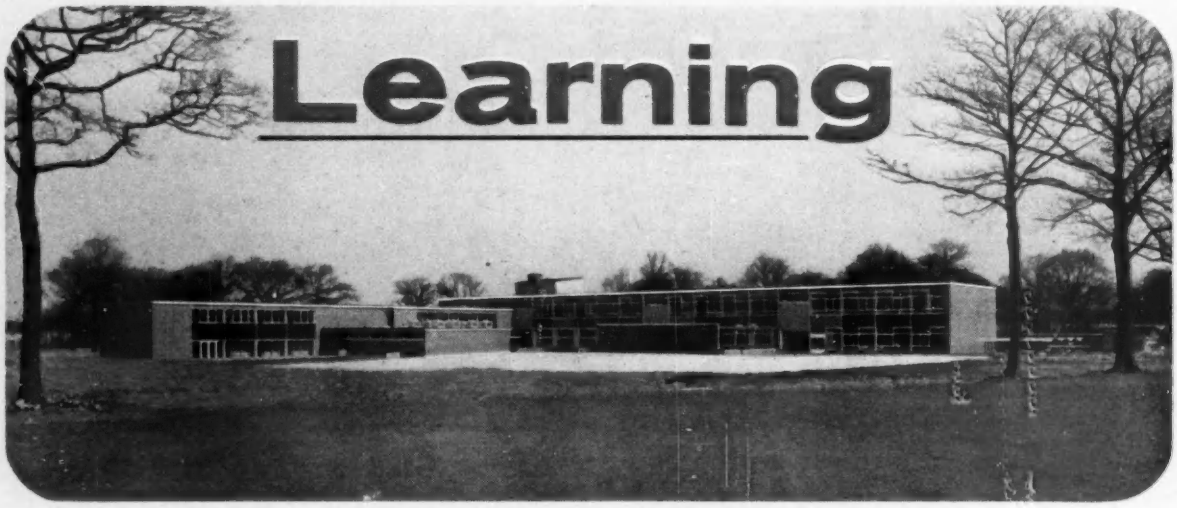

(Photograph—The Maidstone Senacre Secondary School.
Architects: Dennis Darbison, A.R.I.B.A. in collaboration with E. T. Ashley-Smith, F.R.I.B.A. County Architect.
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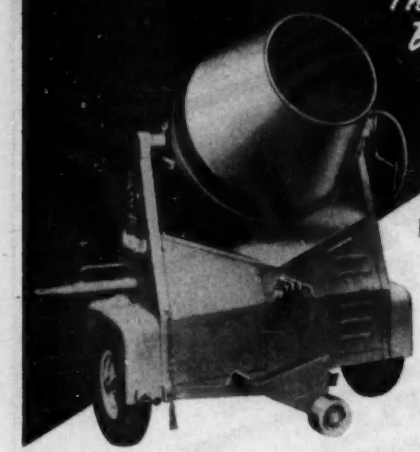

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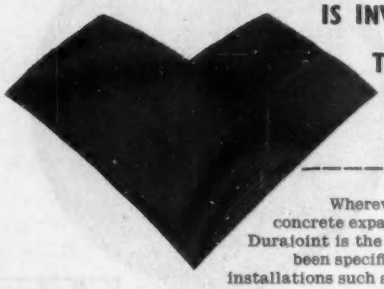

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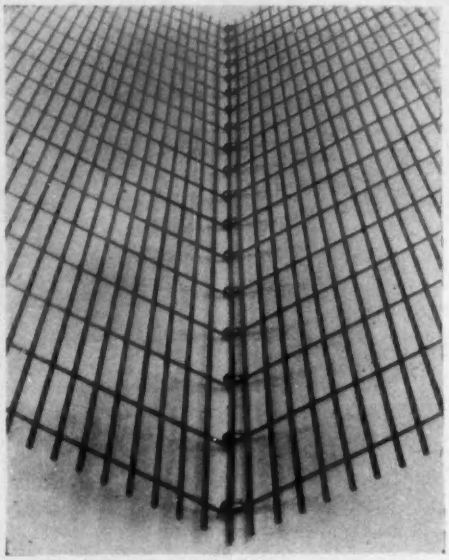

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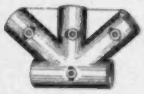
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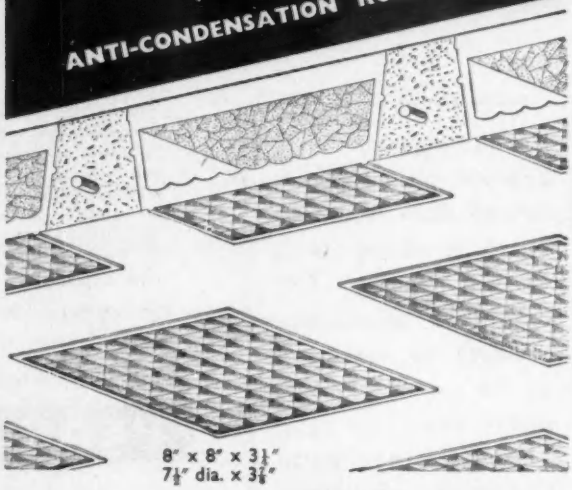

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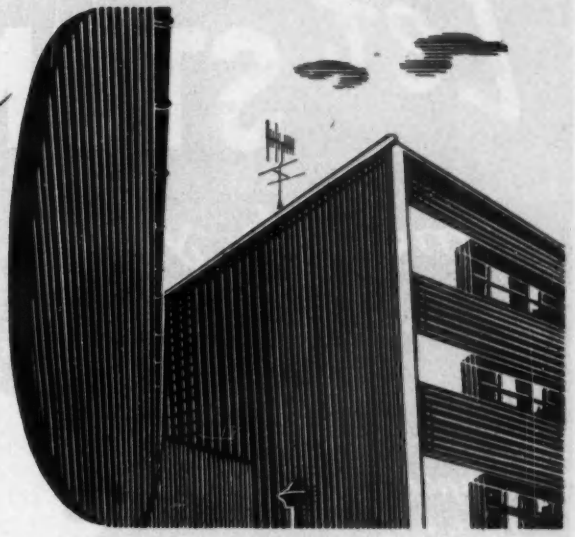

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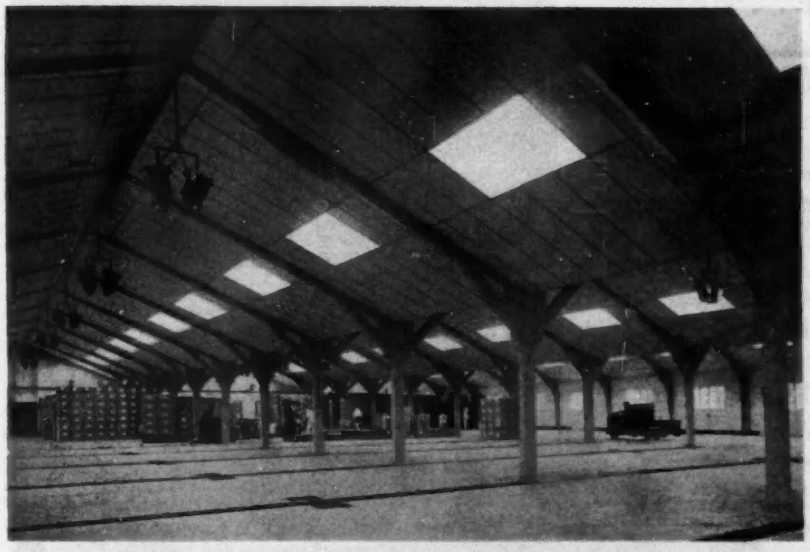

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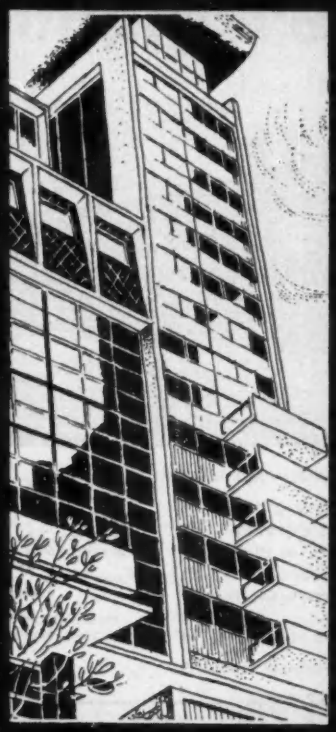

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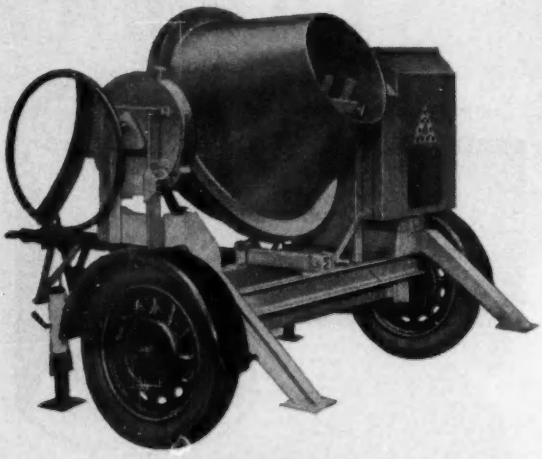

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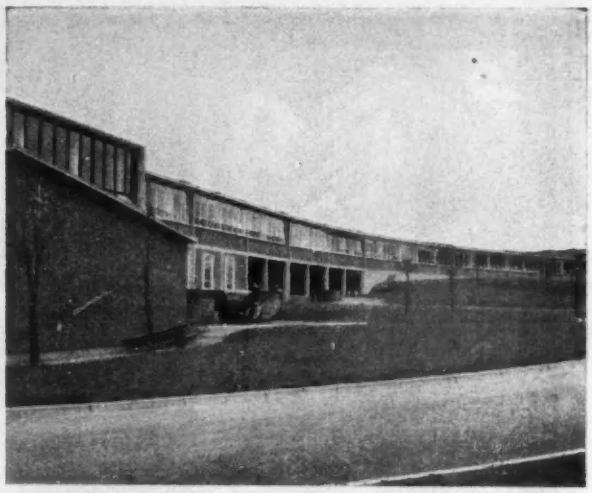

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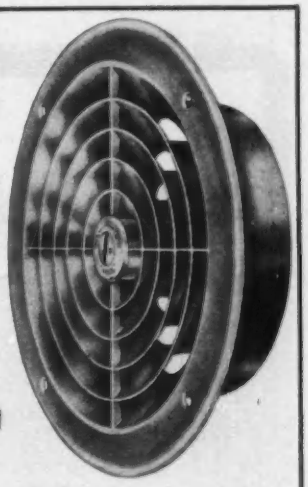

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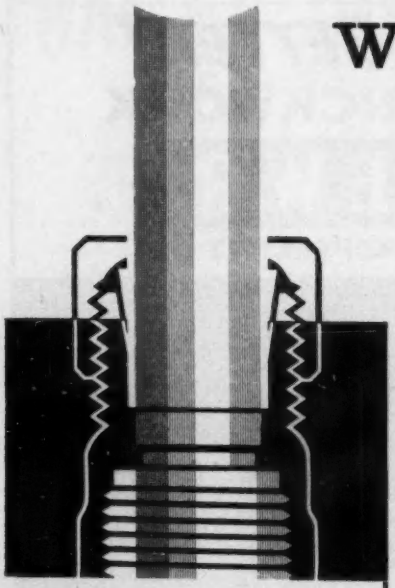

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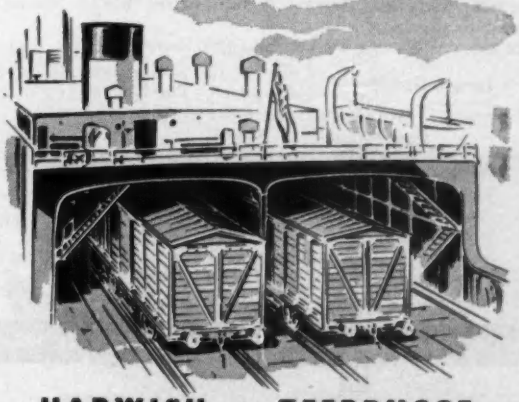

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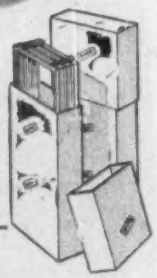

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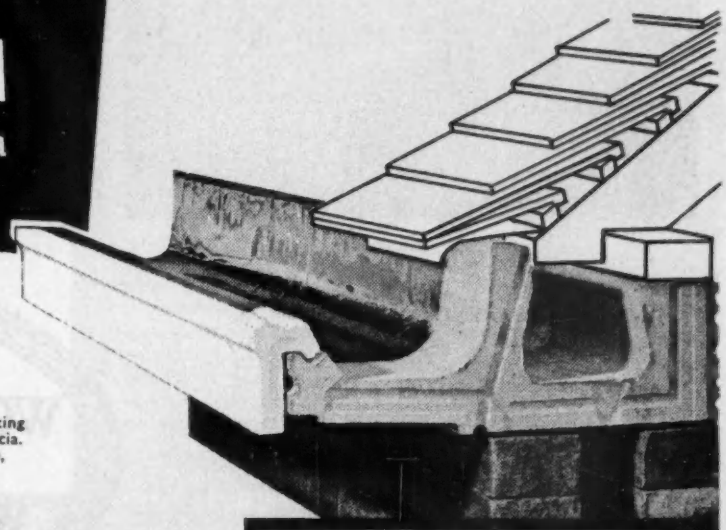

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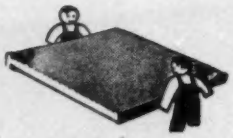

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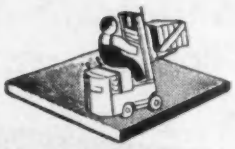

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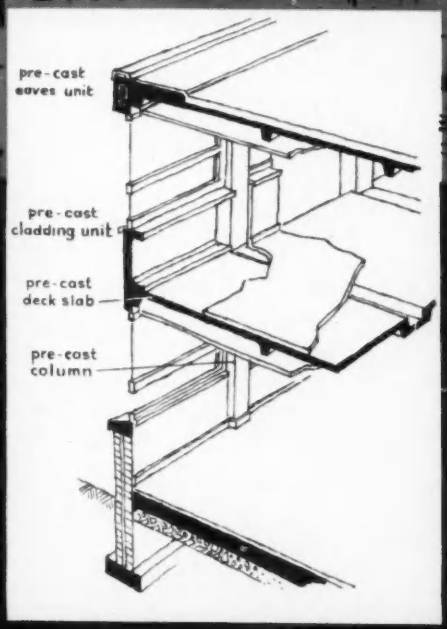

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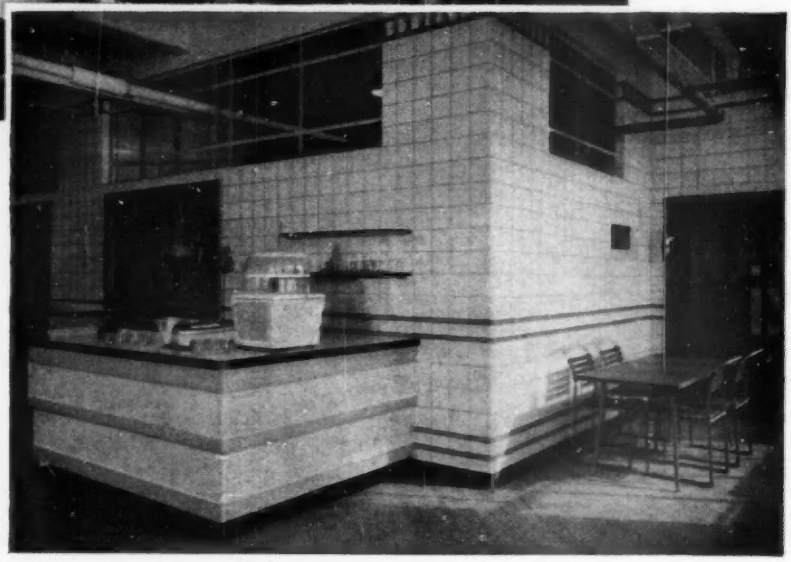

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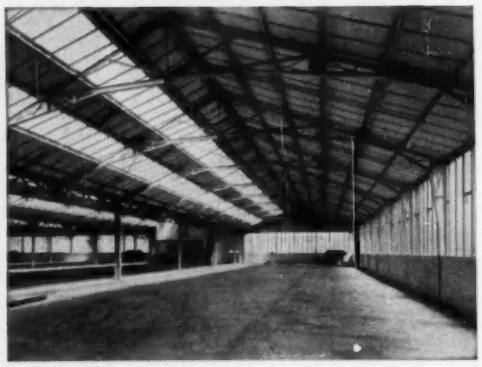

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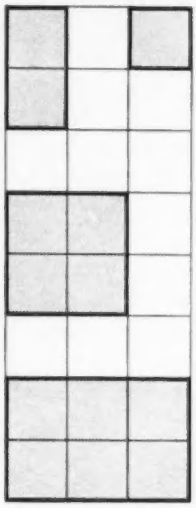

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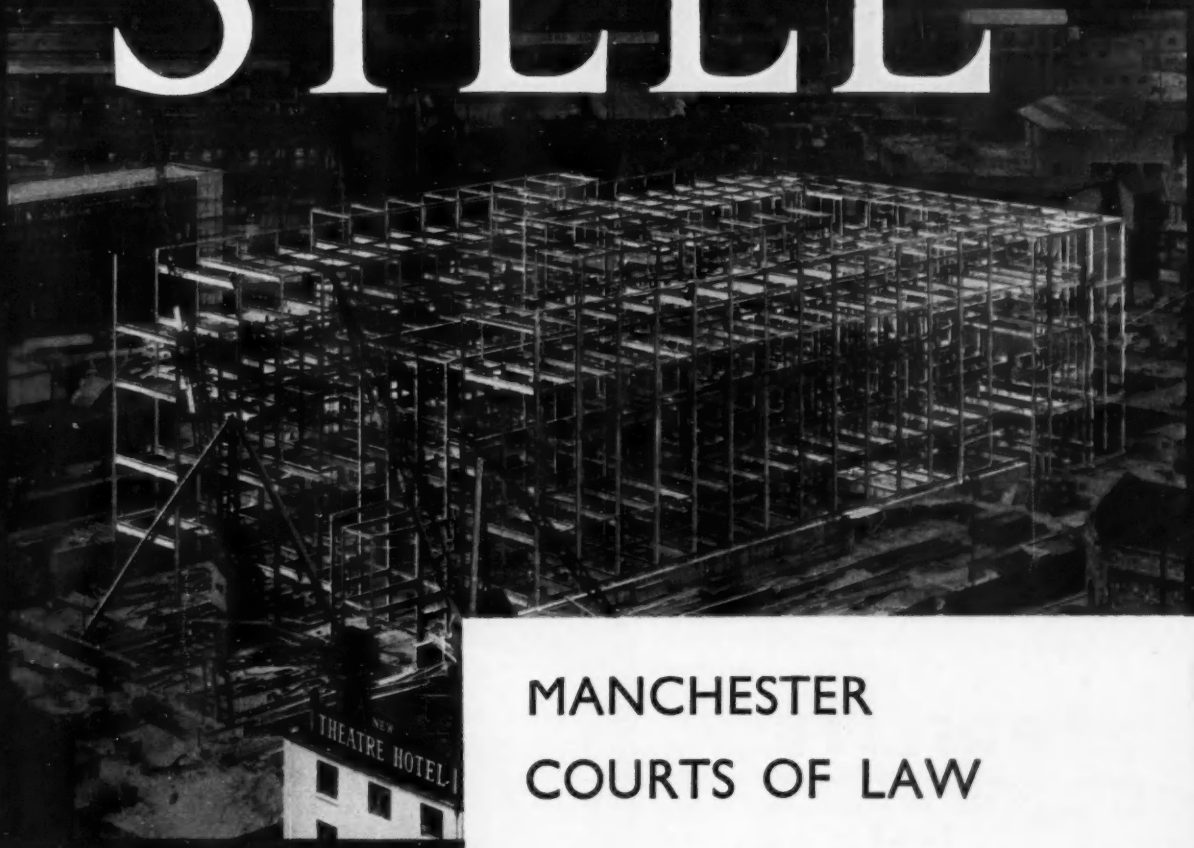

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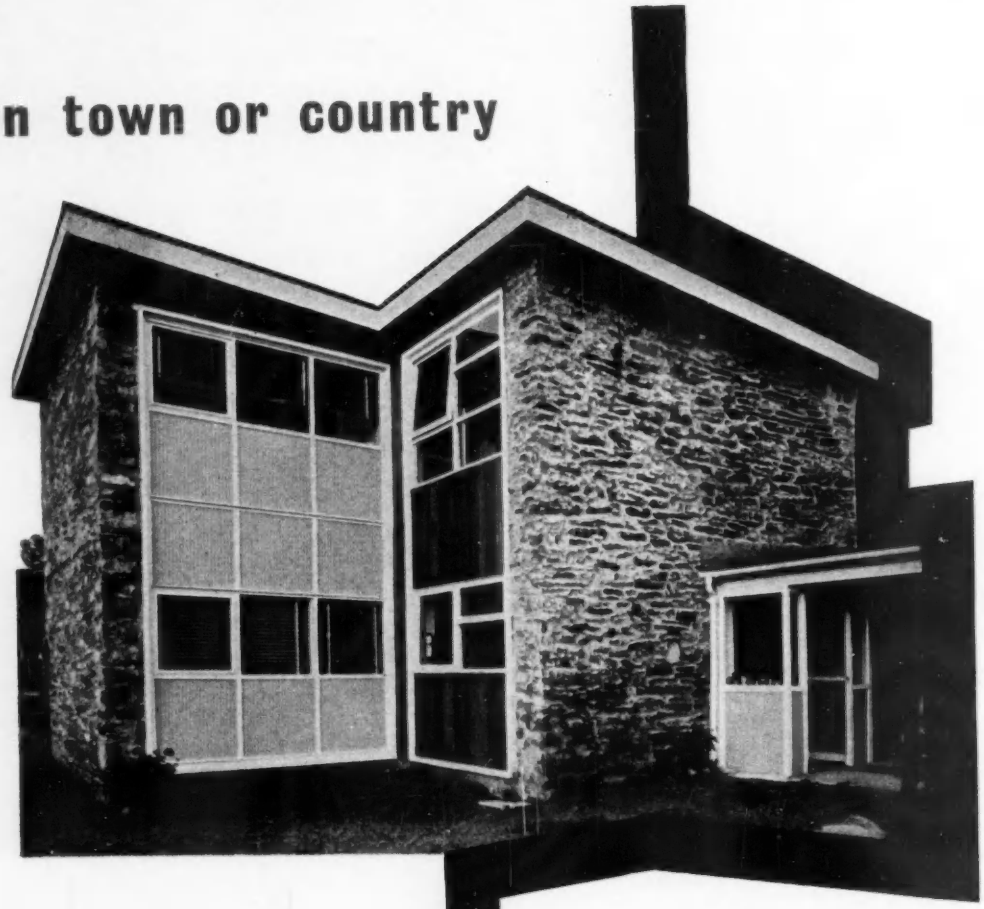

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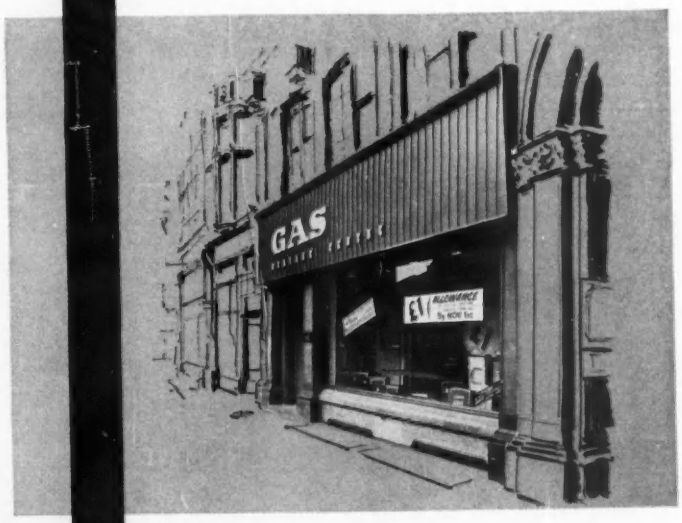

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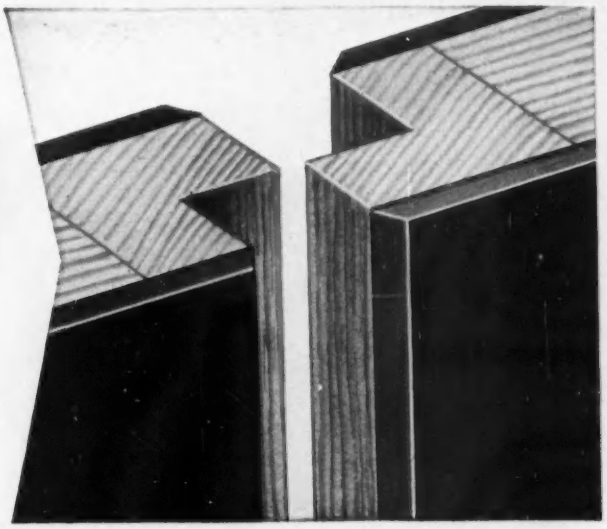

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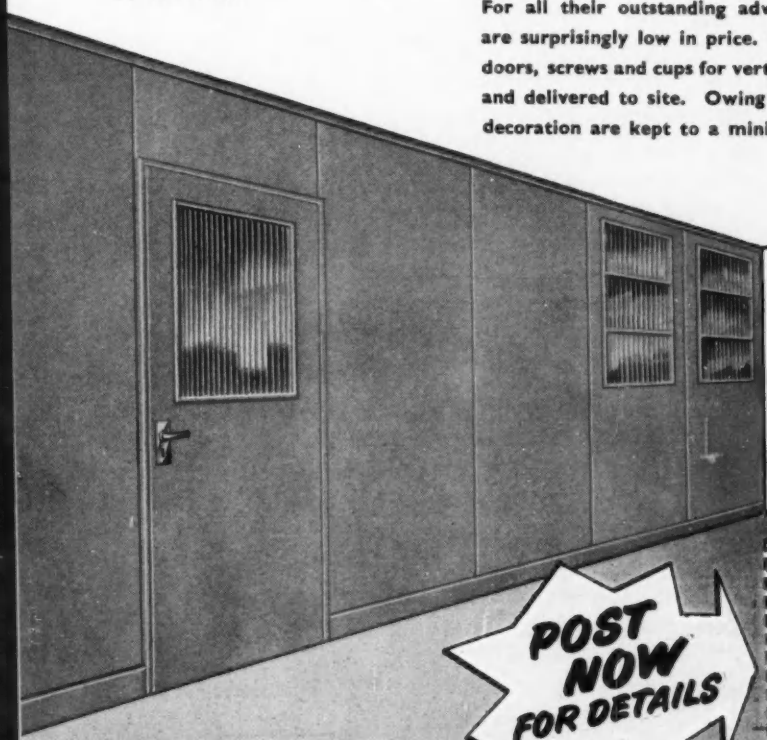

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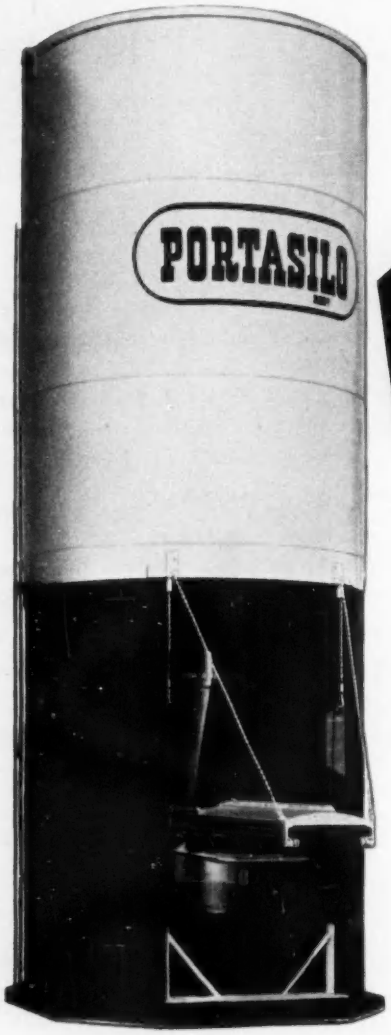

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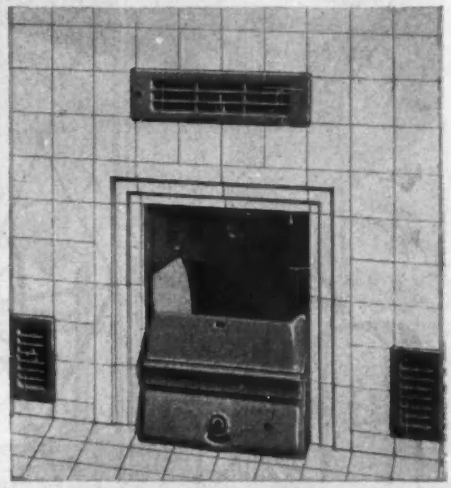
(Left). Installed with Chevin C Inset Fire and Interior Frame No. 37 (used only when convected warm air is returned to the same room).



Installed behind tiled surround with independent closable grilles and Chevin C Inset Fire with Overnight plate in position.

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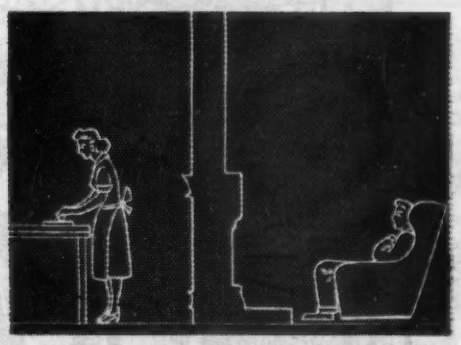

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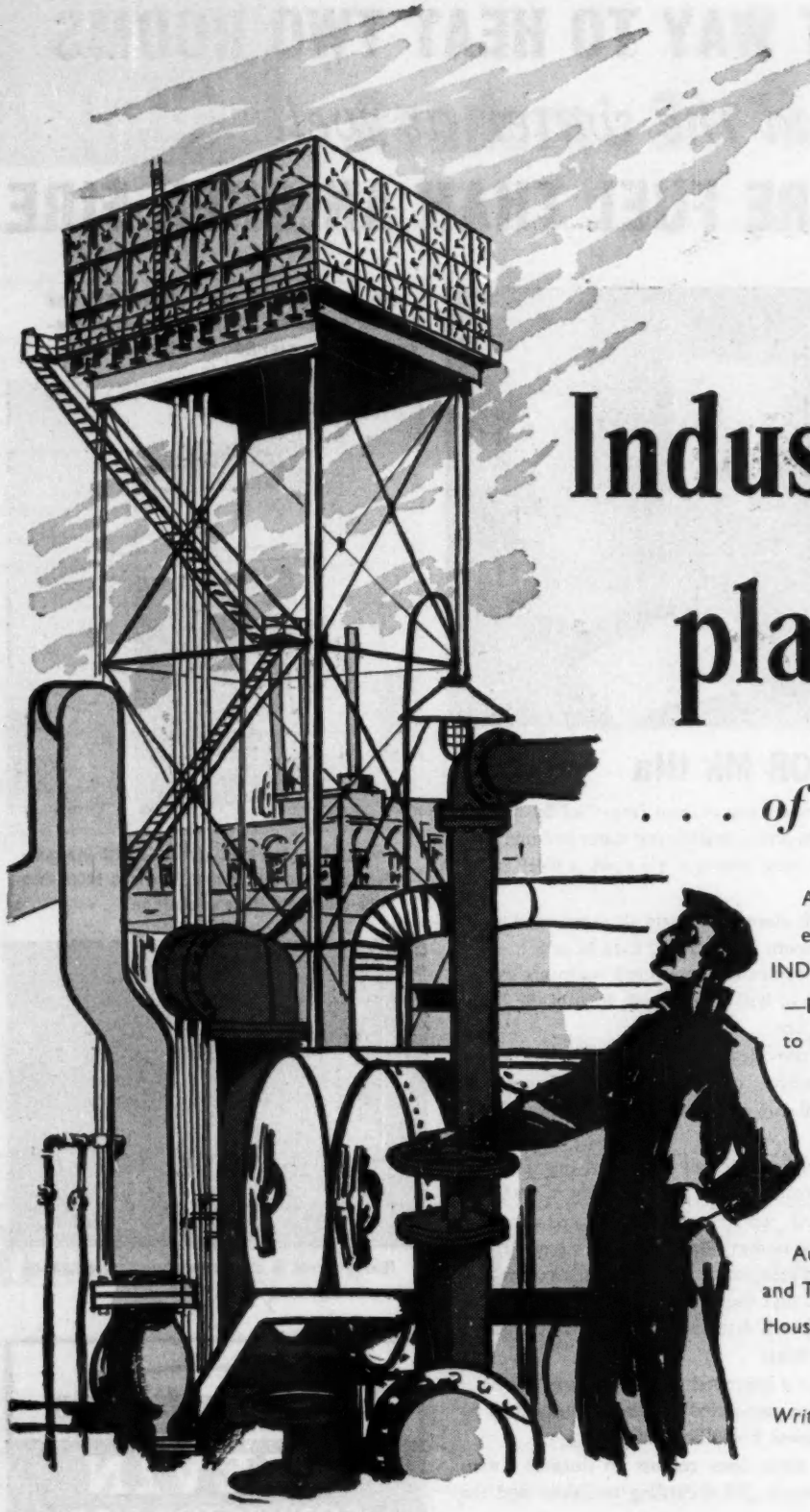

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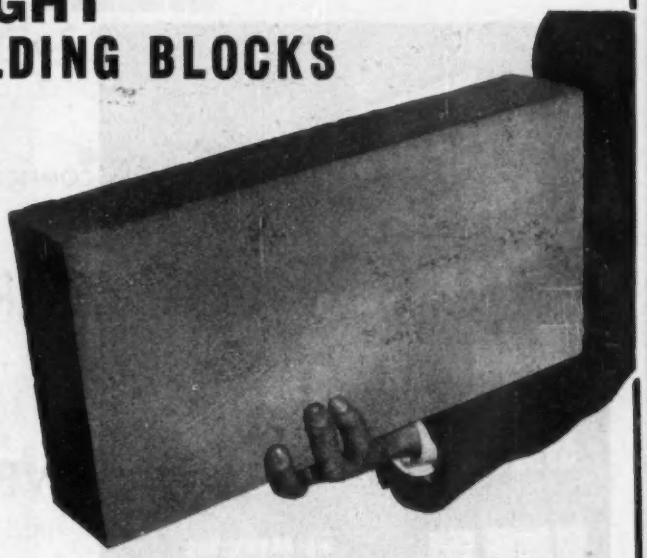

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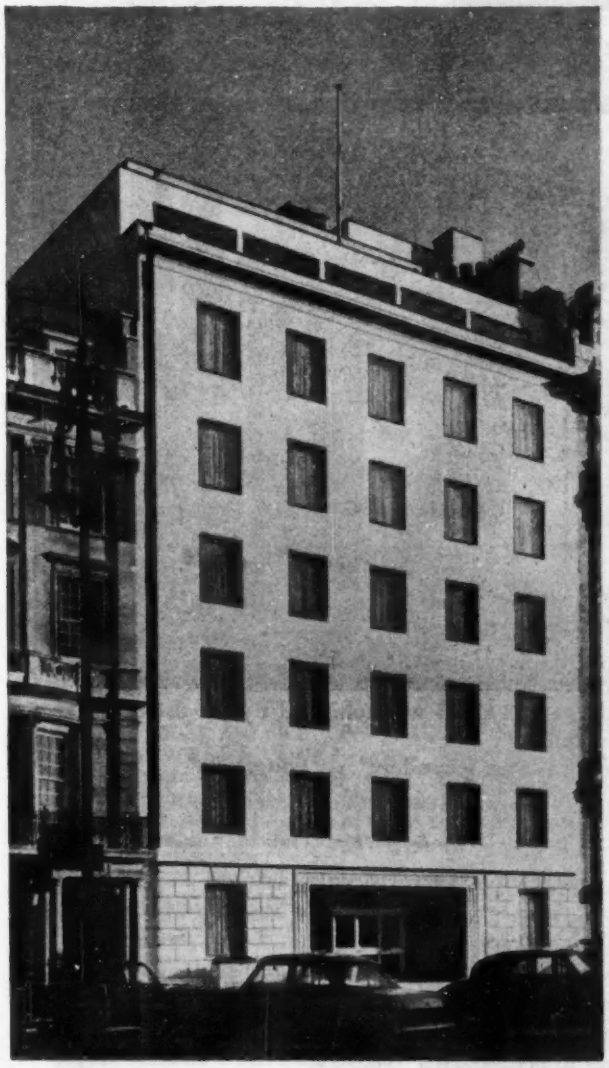

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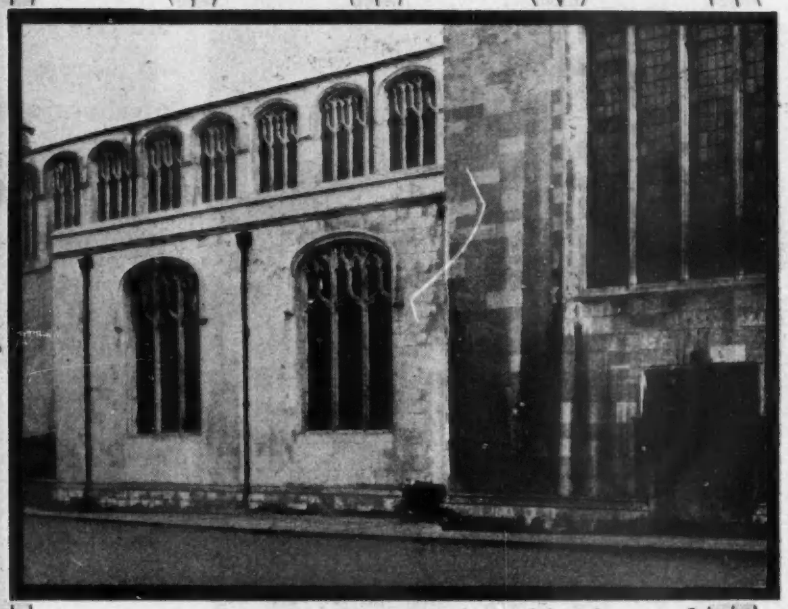

Founded soon after the Norman conquest, this fine old monument of King's Lynn — St. Margaret's Church — is a supreme example of early English and fifteenth century architecture.

Deterioration set in over the years, so a restoration fund was set up to endeavour to raise the necessary money.

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After several months, surface growths of unsightly green patches occurred caused by biological deposits. In damp conditions these algal cells proliferate resulting in green patches of fungi, lichens and moss, which are only temporarily removed by mechanical cleaning, and will recur again and again.

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This problem was brought before our Laboratory and a scheme was proposed. The areas were cleaned down with 'PUDLO' Fungicide solution, destroying all biological contamination. The surface was allowed to dry and a brush coat of 'PUDLO' External Water Repellent applied to prevent any further penetration of water.

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NEWS SUMMARY

THE BARBICAN REDEVELOPMENT 1959 scheme, submitted yesterday to the City Corporation for approval, is illustrated. p. 949

'THE LIVING TOWN,' last week's RIBA Symposium on Urban Renewal, is reported on p. 966

THE CHURCH COMMISSIONERS have lost their appeal in respect of the tower block proposed in the Holford plan to the north of St. Paul's, but are to put in a fresh application. p. 970

THE AVERAGE PRICE of a local authority 3-bedroom house in 1958 *was* £1,485 *compared with* £1,486 in 1958, *states the MoHLG's annual report.* p. 971

THE APRIL wholesale price index for all building and civil engineering materials at 144.8 (1954=100) *is the same as that for March.* p. 973

THE INDUSTRIAL COURT has disallowed an application by the operatives for an increase in building trade wages. p. 973

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THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVI May 29th 1959 No. 6061

WAGES AND PRODUCTION

IT comes as no surprise that the Industrial Court should have decided that the Operatives' claim for an addition of a further 4d. per hour to the basic rates of pay for building workers (which now stand at 4s. 9d. for craftsmen and 4s. 2½d. for labourers) has not been established. The claim was, in effect, no more than an amended re-submission of that for 8d. per hour and a 40-hour week considered by the Industrial Disputes Tribunal last June, when an increase of 1d. was granted which, with the 1d. granted earlier under the sliding scale agreement, made 2d. increase in 1958. There was, of course, a further 1d. an hour granted in February this year under the same agreement.

It is not difficult to have sympathy with the Operatives' Federation's wish to upgrade the building worker's status in the industrial order, a process which Sir Richard Coppock has consistently forwarded during his 37 years as general secretary. The Industrial Court's decision must, however, be taken as a warning that if the process of advancement is to continue, it must be along the road of greater production by the operatives, aided by the architects and builders. The first firm step along this road has already been taken in the form of the recent Operatives' Conference on the impact of new techniques, and we hope that the Federation, in its own interests, will push forward boldly. It would be easy to say that it is not possible to go farther without support from other members of the industry, but it would not be realistic; there is much that the operatives' leaders can do here and now to step up production. They will be wise to take this course; they would then have something better to sell than a second-hand argument.

SHOWROOMS AND OFFICES, HOLBORN.—A perspective of the new multi-storey showroom and office building in Great Queen-street, Holborn, on the site of the old Kingsway Theatre, for the Pearl Assurance Co. Ltd. in association with the Laing Development Co. Ltd., on which work has just begun. The development will comprise two main features: a 12-storey tower block and a 9-storey east block, which will extend at ground-floor level over a new road which will form an extension from Newton-street to Great Queen-street. The building will be of reinforced concrete construction, faced partly in Portland stone and partly in brickwork. The architects are Sir John Burnet, Tait, Wilson & Partners and the quantity surveyors Wakeman Trower & Partners. The building will be erected by John Laing & Son Ltd.

Notes of the Week

'Better Towns for Better Living'

THIS is the title of the exhibition which has been prepared by SPUR (Society for the Promotion of Urban Renewal) and is on view at the RIBA, 66 Portland-place, until Saturday, June 6. The opening of the exhibition was timed to coincide with the symposium 'The Living Town,' and the Civic Trust is hoping that other centres will be sufficiently interested to have the exhibition.

The organisation was by a group of architects, planners and sociologists and Mr. Christof Bon, of Messrs. Chamberlin, Powell and Bon, was the designer. Photographs and drawings are mounted on standard-type flush doors which are suspended from a framework of scaffolding, making the whole thing comparatively easily demountable and able to be transported in a lorry. Co-operation of a number of building contractors was readily given and, besides the RIBA and the Civic Trust, help was given by the Town Planning Institute and the actual sponsors were the Housing Centre.

The message which SPUR wishes to pass on is that town life can be life at its best; our industrial towns are a disgrace to us and the time has come to renew them. Membership of SPUR is composed of active enthusiastic technicians; they have to be both active and enthusiastic to tackle this problem in a country where, when *planning* does exist, it is on a small scale, haphazard and distorted by competitive interests.

The actual exhibition has some noteworthy photographs, many already familiar, and some effective contrasts are made but fine blown-up photographs are not the complete answer to such an exhibition. The introductory exhibits show the people we are concerned with; the middle section is of the virtues and defects of city life; whilst the last section is concerned with what is being done and what could be done. Unfortunately, a number of photographs taken abroad are included, but with some more time and thought it should have been possible to find suitable examples in Great Britain.

Before the exhibition is allowed to go on tour, as it could do with advantage to many, the final section must be strengthened very considerably for the conclusions are inadequately presented and the models, drawings and photographs must be properly documented.

'Further Along the Road'

THIS IS THE TITLE of a report of a visit to America last autumn—sponsored by a number of British companies—during which Mr. H. A. C. Tracey, General Secretary of the Institute of Industrial Supervisors, was able to make some study of American supervision. As Mr. David Bramley, of Birmingham College of Technology, says in a foreword, the time and money spent on this visit are repaid several times by the impressive and useful report which the document contains.

In his conclusions, Mr. Tracey says that the features which impressed him most were not the differences but the similarities in the problems involved and in the activities undertaken to help the supervisor to resolve these problems. Certainly the American foreman has more encouragement to join a management club, but the practice of the best British companies does not lag behind the best American practice in this respect. More is being done in America by more people. The idea that foremen and supervisors need training and should play an active part in an organisation of their own has had more years in which to become accepted and practised.

This does not mean that the American foreman is better than the British foreman—both are products of their industrial and national environments. It does mean that British industry should examine closely its plans for developing supervisors and should reconsider any help which it gives to local foremen's associations. Last, and by no means least, it means that British industry should consider what further help, direct or indirect, it might well give to the overall stimulation of improved standards of supervisory management in the United Kingdom through such agencies as the Institute of Industrial Supervisors which, together with Birmingham Productivity Association, have issued the report.

Builders' New Chairman

THE APPOINTMENT noted on another page of Mr. David Woodbine Parish, FIOB, as chairman of Bovis Ltd. (which takes effect, as does a further appointment to the directorate of the Bovis Holdings Group, on June 8) is of particular interest. The announcement comes at a time when a good deal of attention is being paid to methods of placing building contracts, and especially to finding means of enabling the builder's knowledge to be brought into play at a point when the basic structural conception of the building is being considered.

Mr. Parish, who has spent all 29 years of his life in building with Messrs. Holliday & Greenwood, has long been an advocate of the selective tendering method as enabling such collaboration, and his new post, with a firm which operates solely on the basis of direct selection by the client and his architect (a firm which, in fact, regards itself as the client's own building department and charges a fee for its services), is one which should be after his own heart.

American Military Engineers

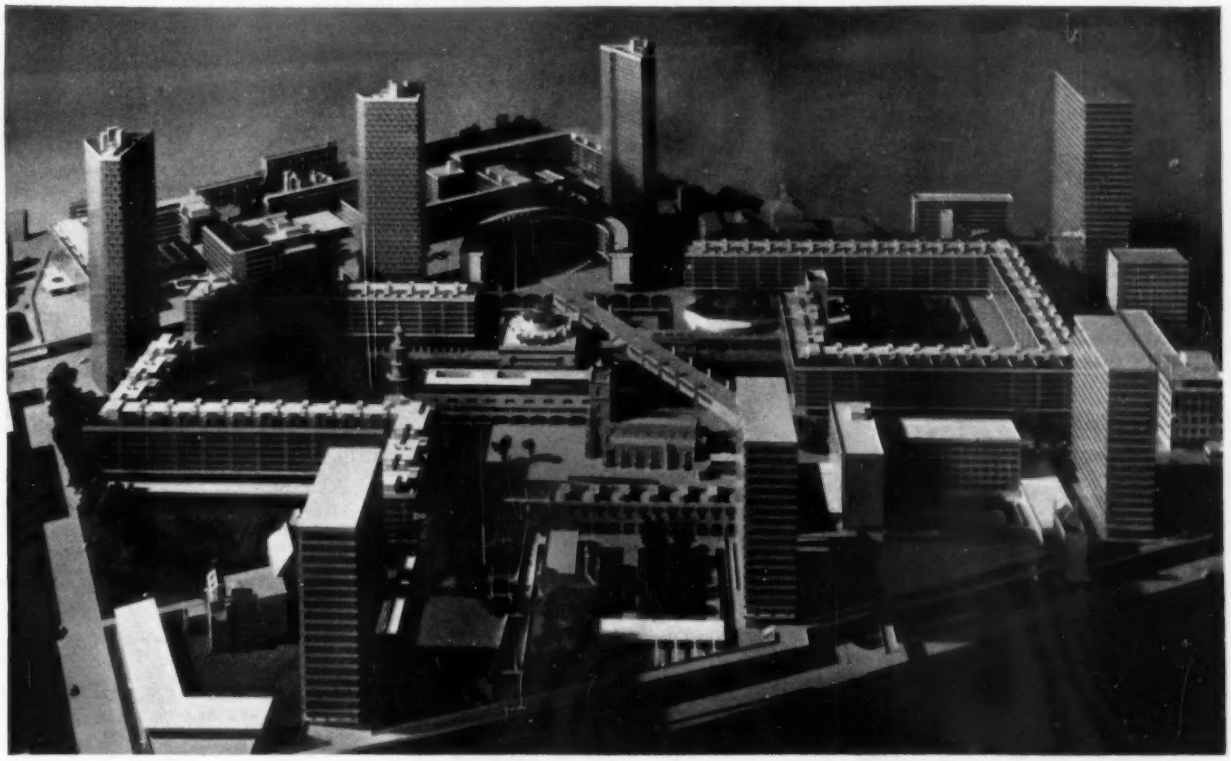
TRIBUTES to the work of the London Post of the Society of American Military Engineers were paid at a dinner held in London recently by Air Chief Marshal Sir Walter Dawson and Major-Gen. Ernest Moore. One of the aims of this organisation is the exchange of background knowledge and techniques between USAF and RAF in the matter of installations, and it is clear from the tributes paid that such co-operation is working well. The Post has a project in hand to underwrite a one-year postgraduate Fellowship for a British engineer at a recognised engineering college in Great Britain.

Play Leadership Conference

THE National Playing Fields Association (whose active President is the Duke of Edinburgh) is holding, in association with the Liverpool Coporation and the Liverpool Council of Social Service, a national conference on Play Leadership in Liverpool from July 2-4 next. Play leadership is a very necessary part of making provision for recreational facilities in housing work, the more especially in large cities, and no doubt Dr. Ronald Bradbury, Chief Architect and Director of Housing, Liverpool, will deal with this in his address. Miss Sylvia Crowe, Mr. Willy Kooy (UN Technical Assistance Administration), and Mr. H. S. Magnay are others of a distinguished panel of speakers. Details of the conference are obtainable from the Association at 71 Eccleston-square, SW1. Fees (residential, £5 5s.; non-residential with meals, £3 3s.) have been sanctioned by the Ministry of Housing in respect of not more than two delegates, a member and an officer, from local government.

LONDON BOTTLENECK ELIMINATED.—A view showing the completed road widening in the Strand in front of Charing Cross Station. It has greatly improved the traffic flow, which was slowed by the narrowness of the road some distance to the east. The widening scheme was first proposed before the first World War.

BARBICAN REDEVELOPMENT, 1959, for the Corporation of London



View of model : Route 11 is in foreground and St. Giles Church in centre of picture

Architects :
CHAMBERLIN, POWELL & BON

Structural Engineers:
OVE ARUP & Partners

Consulting Services Engineers:
G. H. BUCKLE & Partners

Quantity Surveyors :
DAVIS, BELFIELD & EVEREST

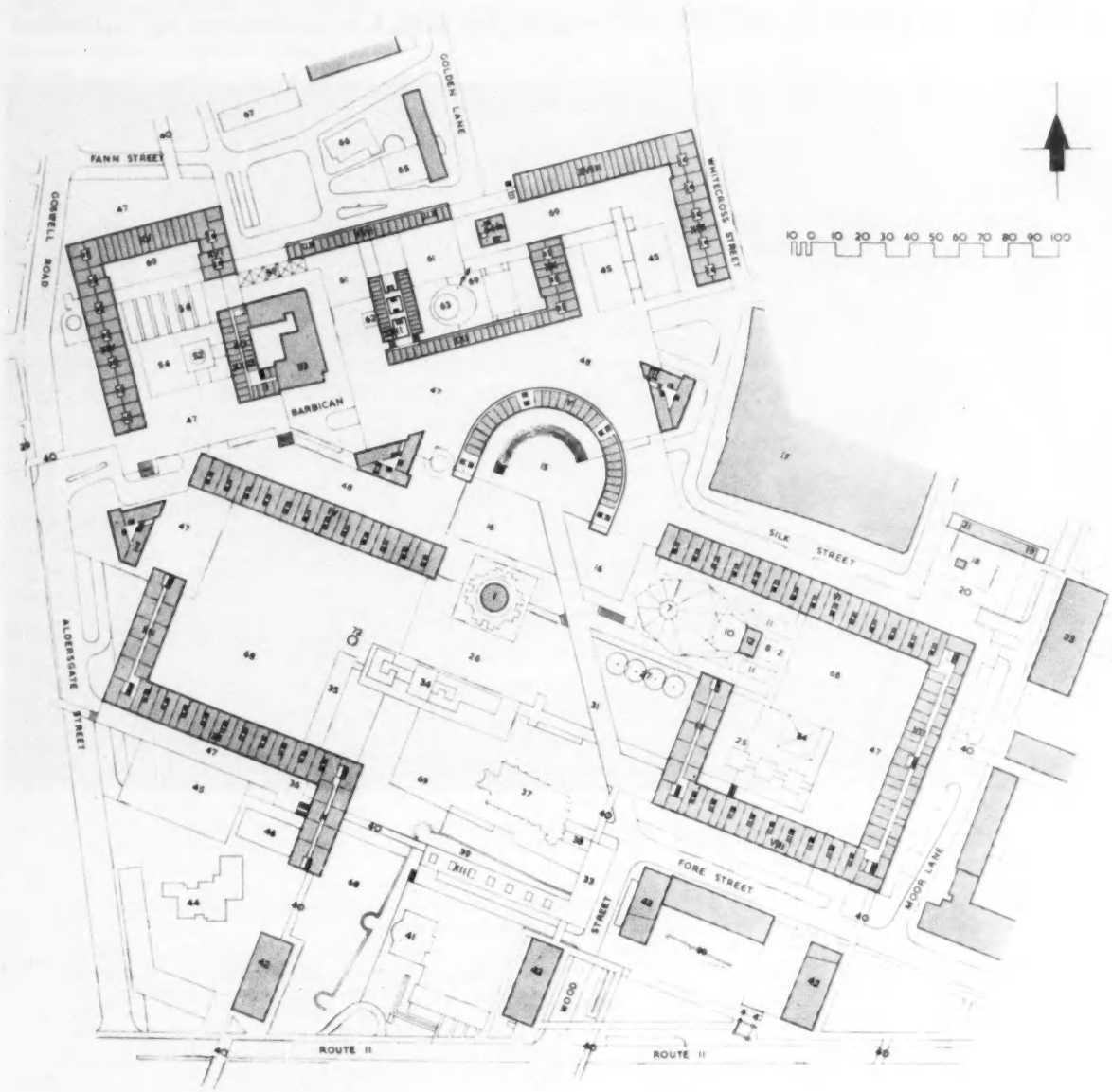
Theatre Consultant :
DR. RICHARD SOUTHERN

IN September, 1957, the Court of Common Council agreed that, as a matter of policy, the objectives of the Minister of Housing and Local Government, as enumerated in the letter to the Lord Mayor dated August 28, 1956, namely that there should be created in the Barbican Area of the City 'a genuine residential neighbourhood incorporating schools, shops, open spaces and other amenities, even if this means foregoing a more remunerative return on the land,' be accepted. It was also decided that the neighbourhood should include new buildings for the City of London School for Girls and the Guildhall School of Music and Drama and that in view of the fact that little or no provision was being made in the central areas of London, either by private enterprise or by local authorities, for housing accommodation for the middle and higher income groups, the residential neighbourhood should be for such income groups.

The Barbican Area consists of 35 acres of land extending from Aldersgate-street to Moor-lane and St. Giles's Church to the northern boundary of the City. In December, 1957, Messrs. Chamberlin, Powell and Bon, who had earlier prepared an outline scheme, were appointed architects to prepare a detailed scheme for this purpose. Their report, from which these details are taken, was submitted to the Court of Common Council yesterday (May 28) with a view to being referred to the Barbican Committee for consideration and report after having obtained the observations of the Improvements and Town Planning Committee, the City of London Schools Committee and the Music Committee.

OUTLINE OF SCHEME : The architects have prepared the following brief notes on their scheme :

1. The realignment and decking over of the underground railway between Moorgate and Aldersgate stations so that no disturbance will be caused to residents.
2. Separation between footpaths and roadways on different levels ; the podium system planned round the base of the commercial buildings flanking route 11 is extended throughout the residential area north and south of Barbican.
3. The building of 2,150 flats mostly in blocks six-storeys high above the podium or in three towers 37-storeys high. These flats range in size from 1 to 5 rooms, are to be electrically heated, and have specially designed kitchens with refuse disposal units under the sinks. Lift service connects all flats with entrances for pedestrians at podium level and for motorists at ground level.
4. Garage space at ground and basement level for about 2,600 cars.
5. New buildings for the City of London School for Girls sited near St. Giles Church where the environment is good for



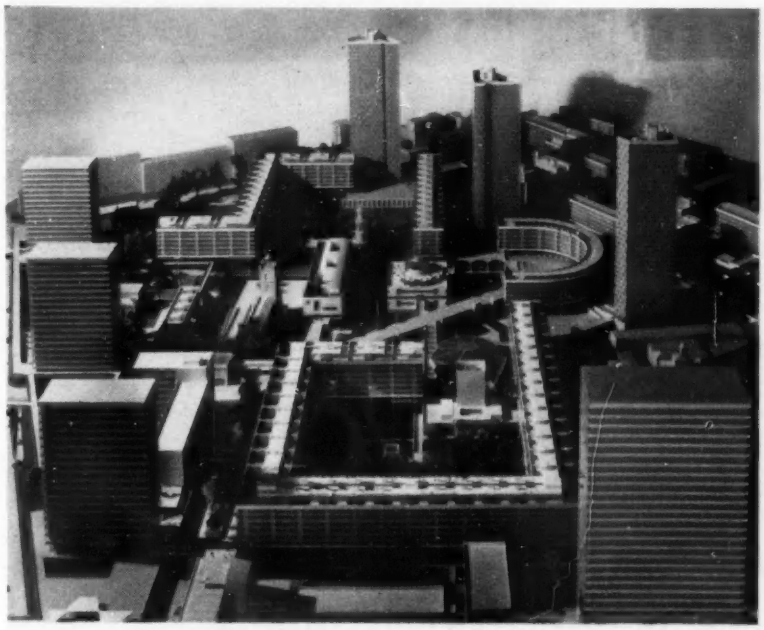
Layout at Level 116 : Typical floor plans are shown stippled

Key to Buildings

1 Guildhall School of Music and Drama—Music School
2 Guildhall School of Music and Drama—Drama School
3 Library
4 Shops
5 Gallery for Lord Mayor's coach
6 Art gallery
7 Concert hall
8 Open-air stage
9 Understage
10 Theatre
11 Drama studios
12 Fly tower of theatre
13 Restaurant
14 Foyer
15 Amphitheatre
16 Arts Centre court
17 Whitbread's brewery
18 Fire station
19 Weights and Measures department
20 Coroner's Court
21 Civil Defence school
22 City greenyard and mortuary
23 27-storey office block
24 Conservatory
25 Water garden
26 The lake
27 Fountains
28 Underground railway line
29 Underground railway station
30 Enclosed viaduct
31 Pedestrian causeway over viaduct
32 Public house
33 Electricity supply station
34 City of London School for Girls
35 City of London School for Girls, preparatory school
36 City of London School for Girls, gymnasium
37 St. Giles' church
38 Vicarage
39 London Wall
40 Pedestrian foot bridge
41 Barber Surgeons' Hall
42 18-storey office blocks
43 Roman house
44 Ironmongers' Hall
45 Tennis courts
46 Games court
47 Podium terrace
48 Podium over garages
49 Petrol filling station
50 Hotel
51 Hotel conference hall
52 Hotel restaurant
53 Existing office building
54 Garden court
55 Swimming pool
56 Roof of swimming pool restaurant and cafe
57 Physical recreation building
58 Squash courts
59 Badminton courts
60 Gymnasium
61 Recreation building
62 Hostel
63 Cripplegate Theatre
64 Cripplegate Secretarial College
65 Metropolitan Police section house
66 Jewin Methodist Chapel
67 Golden Lane Estate
68 Lawn
69 Paved court
70 Covered car park
71 Commercial
72 Tower (Coal exchange)

Key to Housing Blocks

I	37 storeys of flats
II	36 storeys of flats
III	35 storeys of flats
IV	5 storeys of flats with maisonettes above and two-storey houses underneath the podium
V	4 storeys of maisonettes with penthouse maisonettes above and shops at podium level
VI, XI	5 storeys of flats with maisonettes above and 3-storey houses under the podium
VII, VIII	5 storeys of flats with maisonettes above and 2 storeys of flats under the podium
IX, X, XII	5 storeys of flats with maisonettes above
XIII	Terrace of 3-storey houses
XIV, XVI, XIX, XX	6 storeys of flats with penthouses above
XV, XVIII	6 storeys of maisonettes and one floor of flats
XVII, XXI	4 storeys of maisonettes with penthouse above



Another view of the model from East

Preliminary Estimates of Capital Cost

	£
Area South of Barbican :	
Cost of site acquisition	3,300,000
Cost of site clearance, a proportion of the cost of re-routing the Metropolitan Railway and the construction of a through road across the site together with the cost of site development, including utility services, landscaping, etc.	2,900,000
Cost of all buildings	9,115,000
Total capital cost south of Barbican	£15,315,000
Area North of Barbican : Phases I and II only—	£
Cost of site acquisition	1,906,500
Cost of demolition, site clearance together with site development including utility services, landscaping, etc.	335,000
Cost of all buildings	2,650,000
Total capital cost north of Barbican	£4,891,500

the school and where the new school buildings contribute to the urbanity of the whole layout.

6. An Arts Centre—focused on the new buildings for the Guildhall School of Music and Drama—including a theatre, a concert hall, an art gallery, a public lending library and a restaurant. The architects propose that the cast iron rotunda of the Coal Exchange which is to be demolished so that Lower Thames-street can be widened should be re-erected to form a central concourse to the Music School.

7. Buildings for recreation include a swimming pool, squash courts, badminton courts, indoor bowls, club rooms, etc.

8. Other buildings include a group of shops, a hotel with 140 bedrooms, a hostel containing 100 rooms, a new Fire Brigade station, City mortuary, Coroners' Courts, City Greenyard and, as a future development, new buildings for the Cripplegate Institute.

9. Particular attention has been paid to the landscape treatment of the ground between the buildings which includes extensive lawns, tree planting, a lake, paving and decorative planting.

10. In the northern part of the scheme the podium extends over part of Barbican and over a realigned Golden lane ; this podium separates the pedestrian area and flats above from commercial development below.

This area forms part of the Martin/Mealand scheme of comprehensive redevelopment which otherwise consists of office and commercial buildings.

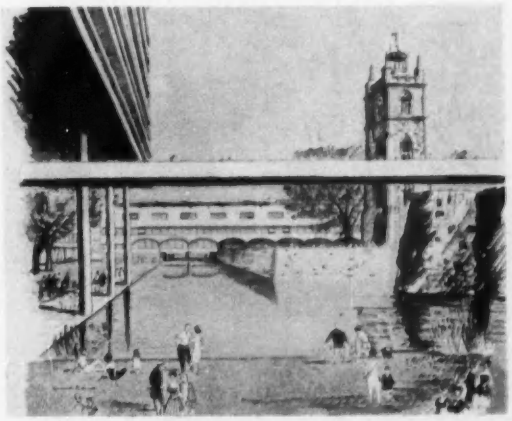
PLANNING AND COST : With regard to the detailed scheme, the architects' intention has been to create a coherent residential precinct in which people can live both conveniently and with pleasure. Uninterrupted by road traffic (which is kept separate from pedestrian circulation through and about the neighbourhood) a quiet precinct will be created.

The capital cost of the whole development south of Barbican and of roughly the first half of the development north of Barbican is estimated to be about £20,000,000 of which building costs amount to about £15,000,000. A 7-year building programme is suggested. The architects' report has been prepared on the basis that annual rents would be charged (exclusive of general and water rates, heating and internal repairs) averaging for each size of flat or house as follows :—

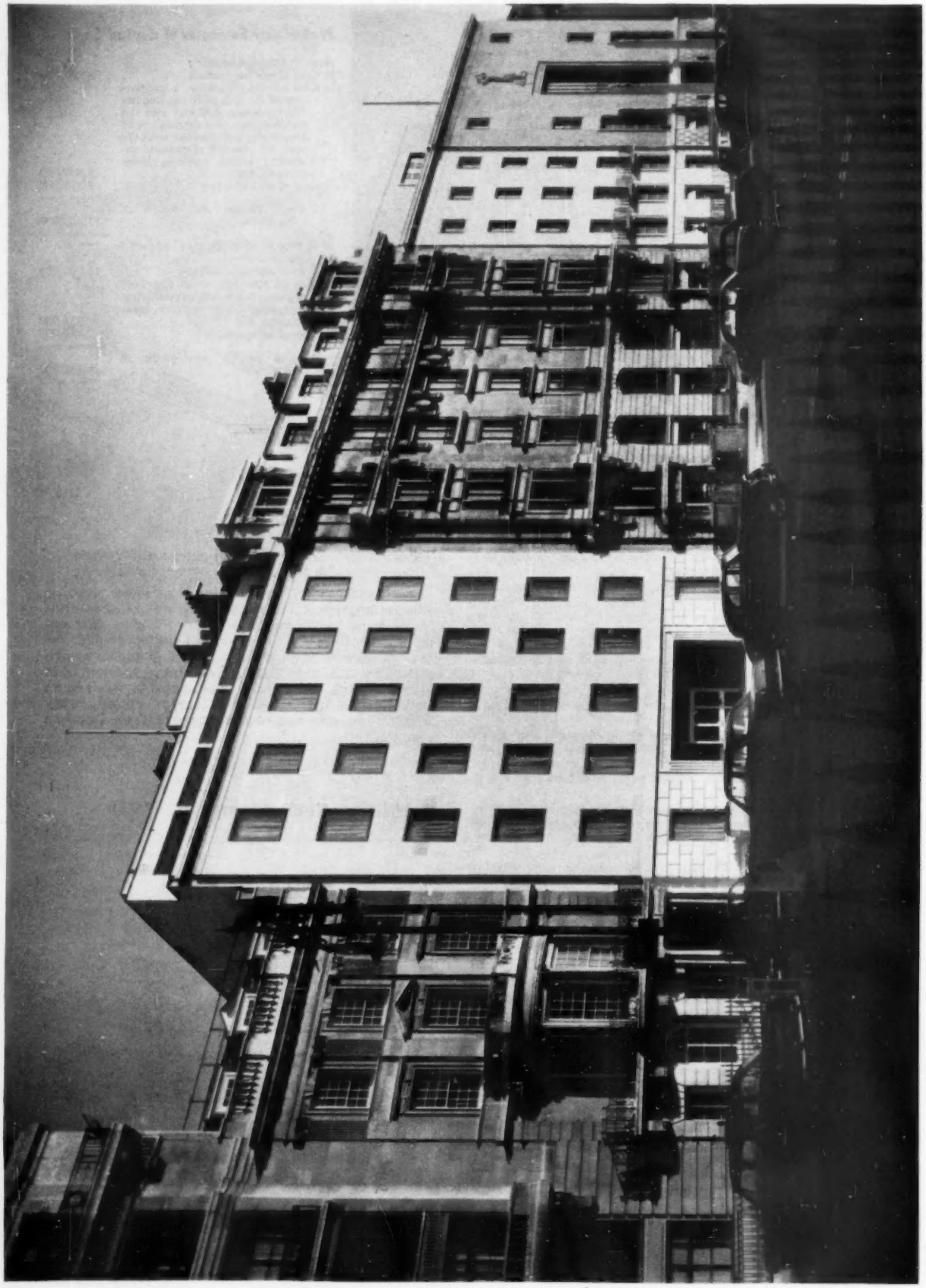
South of Barbican : 5-room flats : £575 ; 4-room flats : £450 ; 3-room flats : £350 ; 2-room flats : £300 ; 5-room houses : £600 ; 4-room houses : £450. *North of Barbican :* 2-room flats : £260 ; 1-room flats : £190.

SITE ACQUISITION : The estimates have been prepared on the assumption that an Exchequer grant would be forthcoming under the Town and Country Planning Acts but that no other form of grant or subsidy will be sought. The site acquisition is estimated to result in an annual contribution from rates of £155,200. The housing account, both north and south of Barbican, is estimated to result in an annual surplus to the credit of rates of approximately £50,800. The appointed estate agents are Messrs. Goddard & Smith.

Barbican Redevelopment, 1959



City of London School for Girls, from South



OFFICES
in Portland-place, London, W1
for the
City and Guilds of London Institute

Architects :
HOWARD V. LOBB & Partners, F/FRIBA

Consulting Engineer :
R. T. JAMES, OBE, MICE, FCGI

Clerk of Works :
O. W. HODDER

General Contractor :
HOLLIDAY & GREENWOOD Ltd.

Opposite page : *A view of the building in its Portland-place setting. The RIBA building can be seen at the far right*

below : *Two views of the main entrance hall*

THE site is part of the Howard de Walden estate and was previously occupied by a John Nash building which had for some years been used as the Italian Consulate. The site presented a number of difficulties ; it is almost directly over the Bakerloo Line tube with a subsoil of poor bearing capacity, calling for the construction of the building on reinforced concrete piles. Considerable work was involved in underpinning the existing party walls on each side of the site ; because of this the foundations of the new building were cantilevered and the walls next to the old party walls were constructed as independent panel walls supported by the steel frame.

It was decided that for speed of erection, a steel frame should be used with reinforced concrete floors. The building was completed in seventeen months.

The elevational treatment of the building and the use of Portland stone was largely determined by the adjoining buildings and the restrictions imposed by the Howard de Walden estate. These restrictions did not apply so severely to the rear elevation, where larger windows have, in consequence, been possible. The overall height of the building and the cube were determined by town planning regulations, as were the requirements that provision should be made for a certain amount of car parking within the site area and that the loading and unloading of mail vans should take place off the main street. There is an efficient system for the receipt, dispatch and handling of bulk mail and other material, by means of a vehicle turntable, loading bay, mail hoist and mail chute. Insofar as Bridford-mews is concerned, some residential accommodation also had to be provided. On a point of detail, particular care has been given to the design of the escape staircase, which all too often is an ungainly steel structure. Here it is of reinforced concrete construction with pierced grille panel walls, and the centre core acts as the main ventillation inlet duct, drawing fresh air from roof level.

Care has been taken to produce a very low level of noise. This is brought about not only by the double glazing of the windows, but also by the highly absorbent ceilings and walls, as well as the cork floors. There are built-in cupboards on the end walls which provide flexible accommodation for files, documents, stationery, etc., and permit the main floor area to remain unobstructed.

The artificial lighting is mainly by fluorescent lamps and the lighting system, hot-water heating pipes and acoustic insulation are all combined integrally with the ceiling,

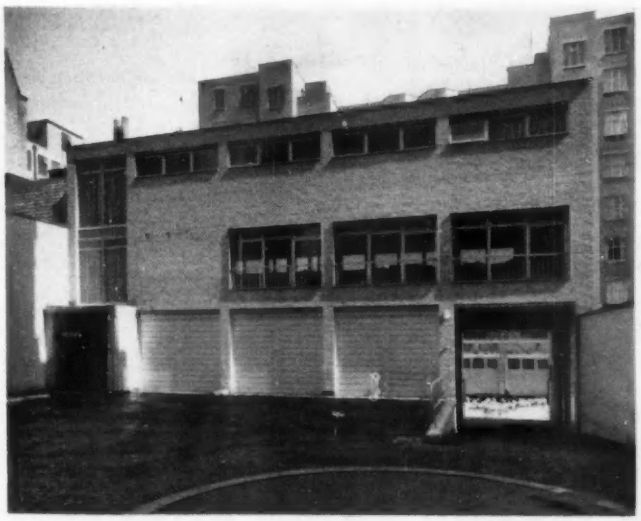
The restaurant on the sixth floor

Offices in Portland-place, London, W1

except that the lamp control gear is installed in an accessible position behind the acoustic wall panelling. This feature of easy access by means of concealed ducts to all control gear, pipe and wiring runs, etc., is applied to all aspects of the electrical, telephone, heating, water supply and drainage systems of the building. The building is fully air conditioned and heating is by means of radiant panels of hot water pipes in the ceiling.

The building and its furnishings have been designed throughout to permit the greatest possible degree of flexibility in use. This is shown by the preservation of a large unobstructed area in the basement, the folding partition which divides the library into two rooms, the demountable partitions in certain of the office spaces, the

A typical lift hall



Offices in Portland-place, London, W1

left : *The yard at the rear of the main building showing the two flats above the garages adjacent to Bridford-mews, the vehicle entrance and part of the turntable*

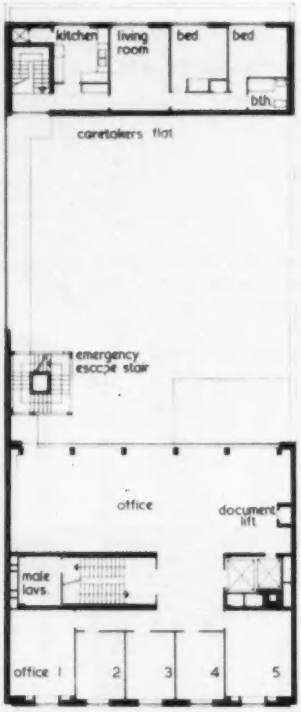
below : *One of the committee rooms*

electrical ducting in floors and the committee room furniture which allows for interchange and various arrangements to cater for the constantly changing demands on these rooms.

The natural and artificial lighting has been assisted by the light colours used in the decorations, which are enhanced by curtains in certain of the rooms. Incidentally, it is one of the estate requirements that net curtains be hung in the windows facing Portland-place.

A large committee room. All the furniture in these rooms has been specially designed by Gordon Russell Ltd. to enable the rooms to be easily rearranged for a number of different functions and requirements

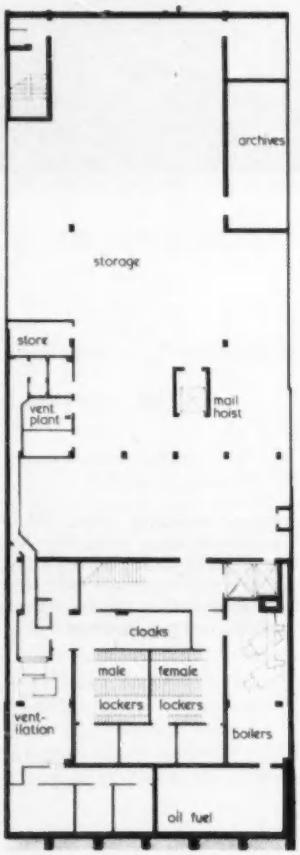
Offices in Portland-place, London, W1



SECOND FLOOR

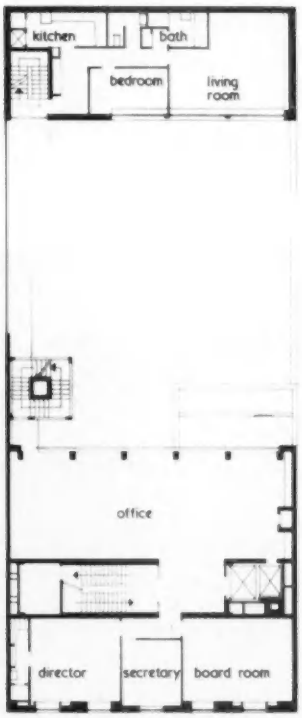
UPPER FLOOR

SIXTH FLOOR

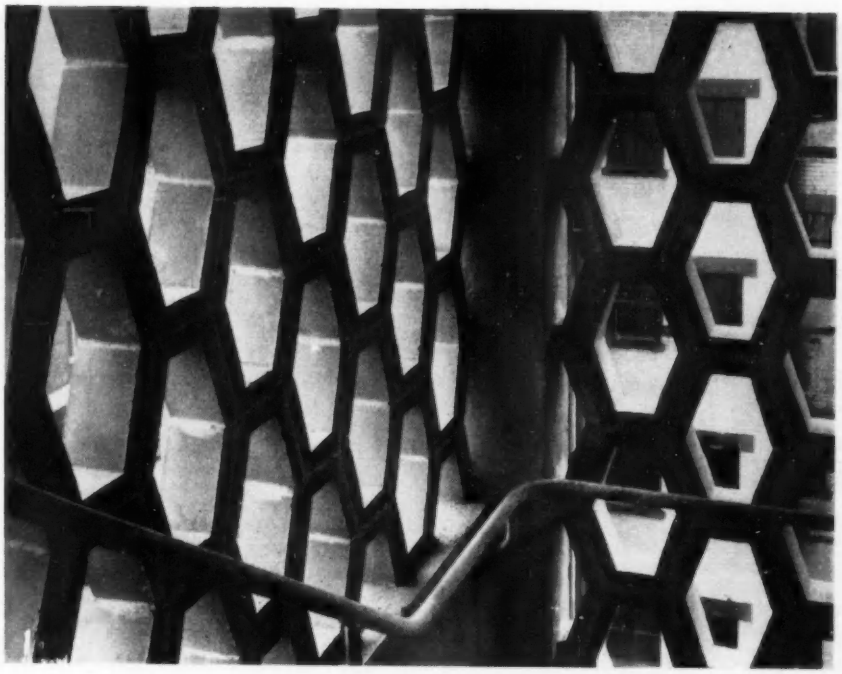


BASEMENT

GROUND FLOOR



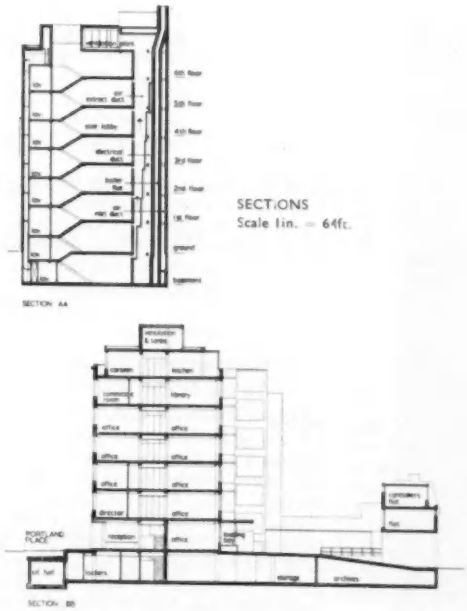
FIRST FLOOR

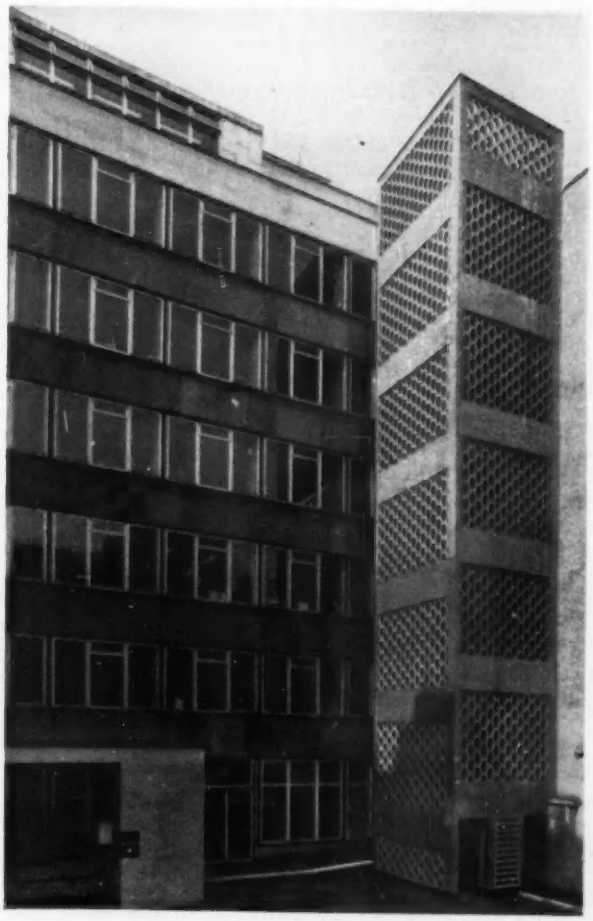


Offices in Portland-place, London, W1

left : *A detail of the ceramic brick screen wall of the rear escape staircase*

below : *The rear elevation of the main building showing the outside of the escape staircase tower and the unloading platform on the left*





Sub-contractors and Suppliers :

Demolition, Demolition & Construction Co., Ltd. ; *piling*, Pressure Piling Co. (Parent), Ltd. ; *structural steel*, United Structural Steel Co., Ltd. ; *Portland stone*, The Wandsworth Stonemasonry Works ; *heating and ventilation*, Rosser & Russell, Ltd. ; *electrical installation*, Barlow & Young, Ltd. ; *acoustic ceilings*, Clark & Fenn, Ltd. ; *lifts*, J. & E. Hall, Ltd. ; *marble pavings and wall linings*, The Nine Elms Stone Masonry Works ; *terrazzo work and plastering*, Alan Milne, Ltd. ; *acoustic panelling*, John Dale, Ltd. ; *cork flooring*, The Cork Insulation & Asbestos Co., Ltd. ; *floor tiling*, The Marley Tile Co., Ltd. ; *demountable partitions*, Ayrshire Dockyard Co., Ltd. ; *telephone equipment*, Automatic Telephone & Electric Co., Ltd. ; *kitchen equipment*, Benham & Son, Ltd. ; *special joinery*, Samuel Elliott & Sons (Reading), Ltd. ; *furnishings*, John Perring, Ltd. ; *furniture*, Gordon Russell, Ltd. ; *switchgear*, The English Electric Co., Ltd. ; *glass*, Pilkington Bros., Ltd. ; *designer of lettering*, W. H. Sharpington.

CORRESPONDENCE

A Threatened London Backwater

To the Editor of *The Builder*

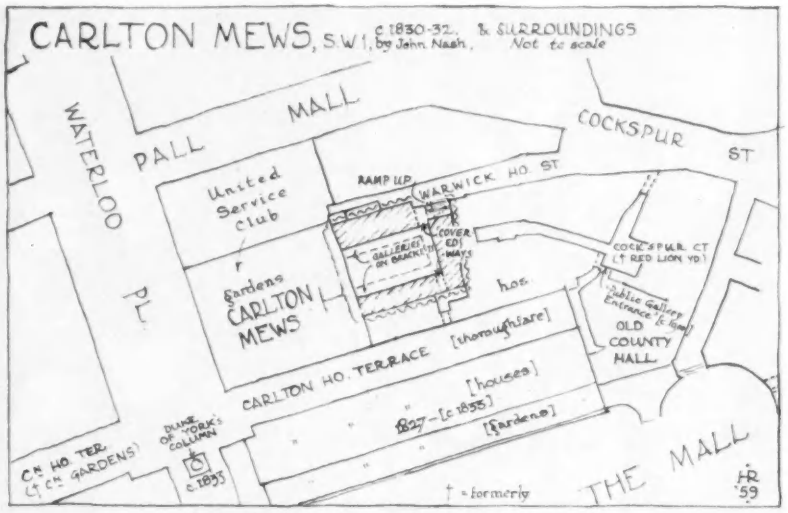
SIR,—It may not be generally known that the unusual (perhaps unique) and charming backwater, Carlton-mews, SW1, has been threatened with partial demolition for (it is said) an addition to a neighbouring club.

The present writer stumbled upon it some years ago and was delighted by it. An oblong courtyard has on three sides stables on ground level and small two-storey houses above, to which access is afforded by iron galleries on brackets; at the west end a tall blank wall borders on the United Service Club garden and marks an unfulfilled western extension of the Mews. At the north-east and south-east corners covered ways lead respectively to Warwick House-street (itself a little-known branch of Cockspur-street) and the eastern part of Carlton House-terrace; one can thus pass through from Cockspur-street to the foot of Waterloo-place, by the Duke of York's Column.

East of the former gateway (as shown on the accompanying plan) is a wide 'dog-leg' ramp up to the galleries; the slopes are steep, cobbled, certainly uncomfortable to the feet and almost dangerous in descending; it has been suggested that up these slopes horses were led for stabling. John Nash is said to have been the architect, 1830-32. (See the illustrations and article in *Country Life*, Jan. 29, 1959, pp. 198-9, and brief reference in Pevsner, *Cities of London and Westminster*, 1955, p. 500.) Other local buildings are shown on the plan (not strictly to scale); Cockspur-court (formerly Red Lion-yard), east of the Mews, is also worth exploring.

H. V. MOLESWORTH ROBERTS.

Wallington, Surrey.



A sketch of the Carlton Mews area (see letter)

New Motor Roads: Are They Adequate?

To the Editor of *The Builder*

SIR,—The announcement by Mr. Harold Watkinson, the Minister of Transport, of plans to rebuild the Kingston By-pass at a cost of £1,700,000 (reported in your last issue) is a striking commentary on the speed with which our motor roads become obsolescent. Do we look far enough ahead in our planning?

The Kingston By-pass was opened in 1927. I remember going along it when it was almost entirely a road through meadowland. A few years later it had become a notorious example of dangerous ribbon development. We appear at least to have learnt that lesson, but with half-a-million new motor vehicles coming on the roads every year it may be asked whether our plans are yet adequate to future needs.

In one of his letters from America a few months ago Alistair Cooke said he was staggered to learn that our new motor roads provided for only four lanes of traffic (two each way). In the United States, apparently, provision is nearly always made for eight lanes, and even these become congested.

Presumably all our new new roads will have to be rebuilt in another thirty years.

SURREYITE.

'At 100 years old, my interest in the Barbican baby is, I assure you Nurse, purely architectural!'

Question of Construction

To the Editor of *The Builder*

SIR,—I have long admired the work of Professor Felix Candela for its originality and directness, but I am puzzled by the photograph of the Custom Shed, Mexico City, illustrated on page 877 of your issue of May 15.

This shows features that one would not expect to find in an example of shell concrete, namely, the tie rods connecting the cantilevered canopy and the adjacent shell roof to the intervening row of piers. Are these rods necessary to the stability of the structure? When we find such tie rods in medieval work (e.g., in the choir and transept arcades of Westminster Abbey) we reflect on the medieval lack of knowledge of structural mechanics. Professor Candela is a brilliant engineer and no one would think of questioning his calculations. Perhaps these are not tie rods. It would be interesting to have an explanation.

SPERO.

'Direct Labour' Accountants

To the Editor of *The Builder*

SIR,—I was very surprised when reading article on page 902 of *The Builder* of May 15, dealing with the 18th annual report of the Federation of Painting Contractors as to the apparent lack of knowledge as to what goes on in their local town halls. Surely they must be aware of the fact that each local authority has a Borough Treasurer and Accountant, who is a highly qualified officer and is responsible to the authority for the allocation of 'on-costs' on work carried out by the different departments.

I am extremely puzzled at the veiled hints at 'hidden costs' not being dealt with in a proper manner; the writer of the report is indeed correct when he talks of limited knowledge—it is indeed limited and borders on the unknown. Of course works departments are charged proper 'on-costs,' and if the writer of the report took the trouble to make inquiries at his Town Hall he would see this for himself.

The apparent serious falling off of innumerable routine jobs affecting the small master painter is surely not attributable to local authorities as they have been carrying out their own decorating work for years. It seems to me the answer lies more in the hands of the master painter himself, for can it be that he is pricing himself out of work, thus compelling householders to 'do it themselves,' which in turn has encouraged the nation-wide advertising indulged in by many of the paint manufacturers?

A. E. ULLMER.

3 Ashurst-drive, Ilford.

Decimalised Measurement

To the Editor of *The Builder*

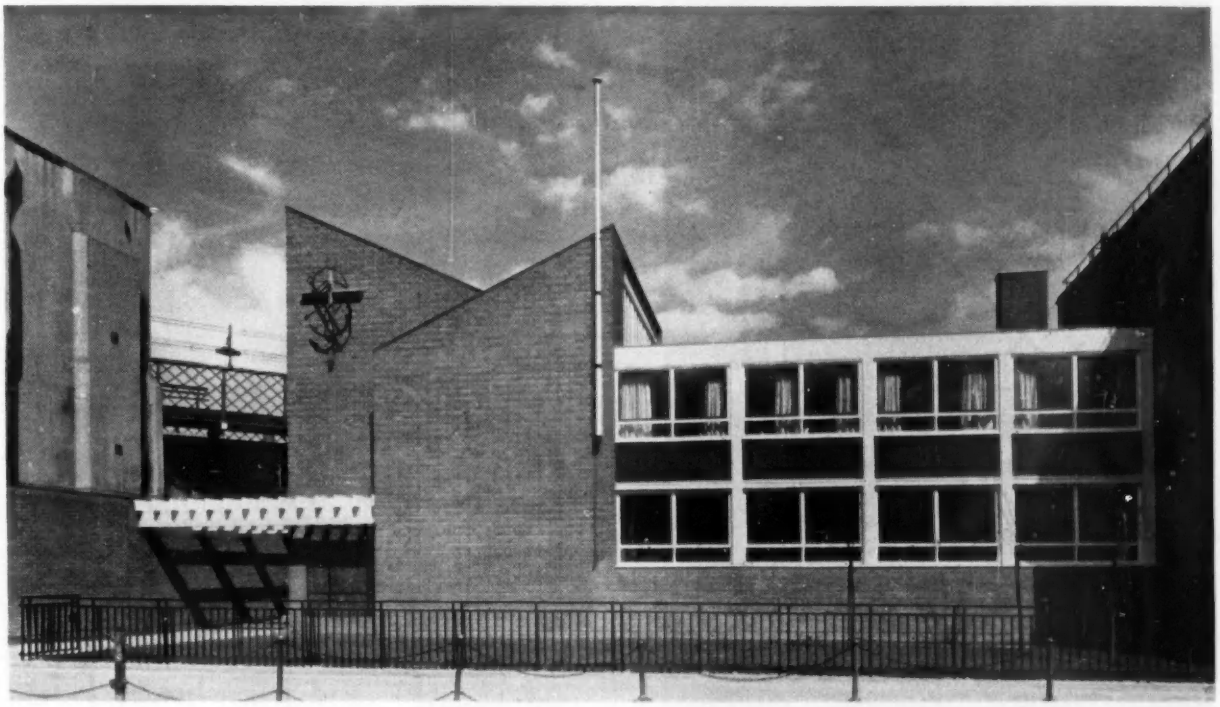
SIR,—Obviously little if anything I am likely to say will merit the BAAS Metric Committee's appreciation if the last letter signed by Mr. Shipley (*The Builder*, May 8) is an example of the extent of its criticism, roused beyond all proportions by what I can only adjudge in the first instance to be a misreading of part of my March 20 letter. It would seem from what has been said that I am guilty of a form of inverse-plagiarism.

I am sorry if I have upset him or his committee, but is one to take it seriously that their work is impeded by my having submitted replies in good faith to two different questionnaires on the subject? Such an occasional overlap was surely not unexpected or detrimental.

Finally, I have a feeling that someone is making pretty heavy-weather over this metric system investigation, but perhaps other industries which have fewer recalcitrant enthusiasts present plainer sailing.

G. E. ALCOCK [AIOB, FIQS].

Sutton, Surrey.



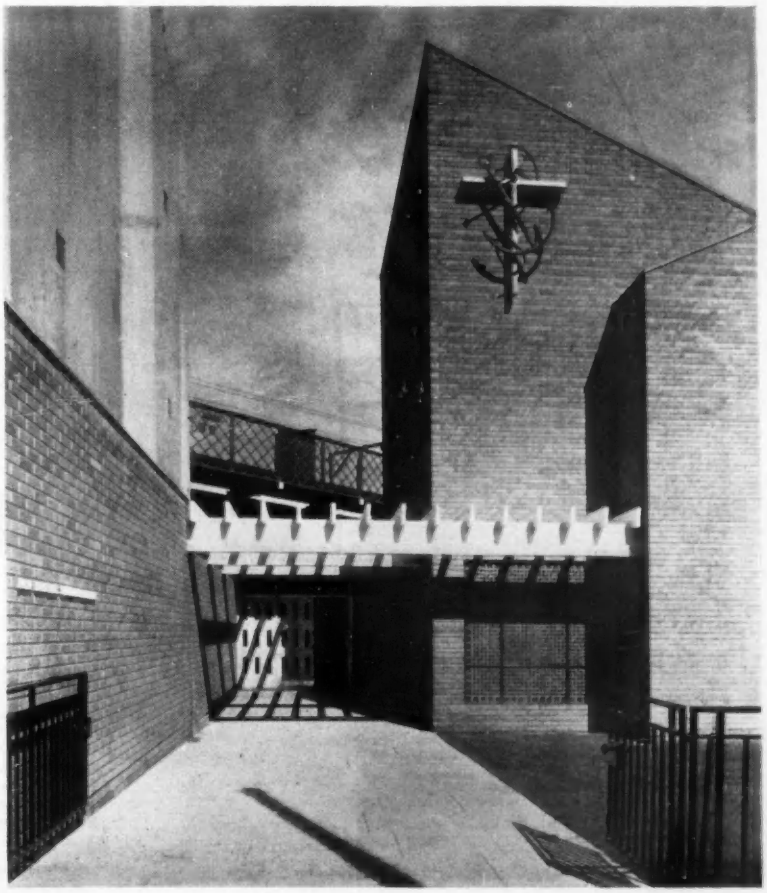
THE DANISH SEAMEN'S CHURCH IN FOREIGN PORTS, Commercial-road, London, E14

Architects:
HOLGER JENSEN, MAA,
in association with
EDWARD ARMSTRONG and
FREDERICK MacMANUS.
RICHARD WACKERBARTH, BA, ARIBA, Associate in charge

Structural Engineers:
OVE ARUP & Partners

Quantity Surveyors:
WILLIAM C. INMAN & Partners

General Contractor:
W. H. GAZE & Sons, Ltd.



above: *A general view with the small church on the left and the domestic accommodation in the two-storey block*

right: *The entrance showing the anchor and cross motif and the exterior of the glass mosaic window which backs the two wooden figures*

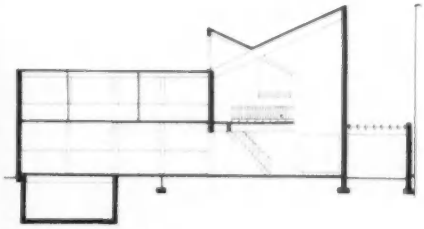
The Danish Seamen's Church in Foreign Ports Commercial Road, London, E14

SITE PLAN

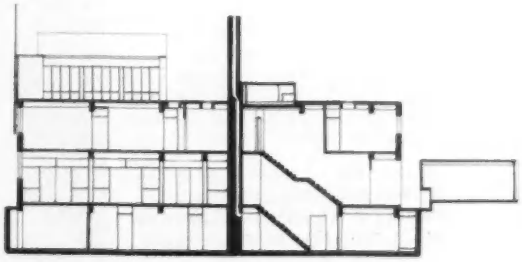
GROUND FLOOR PLAN

FIRST FLOOR PLAN

BASEMENT PLAN

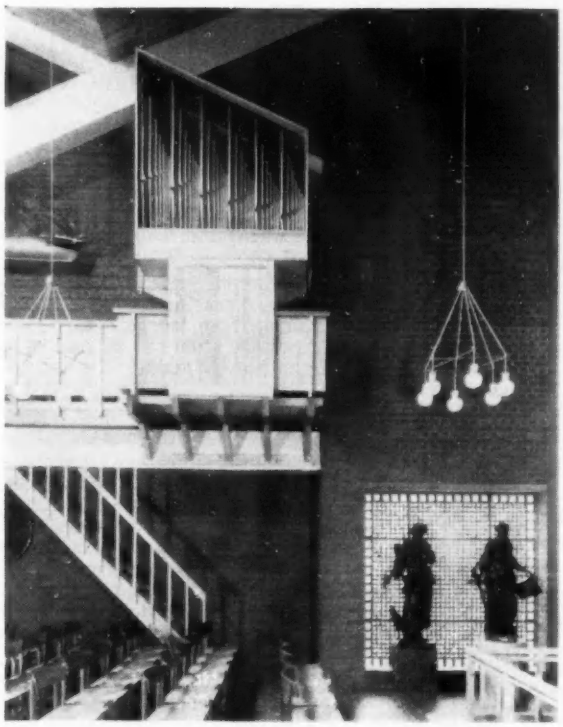


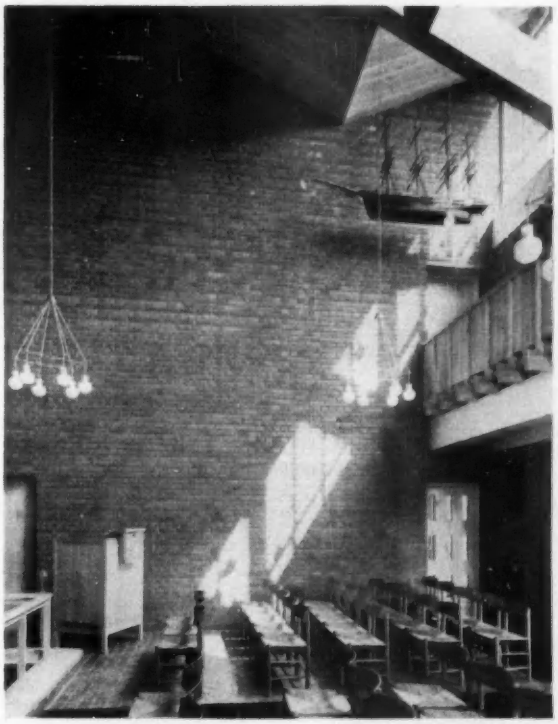
SECTION A-A



SECTION B-B

PLANS AND SECTIONS Scale 1 in. = 32 ft.

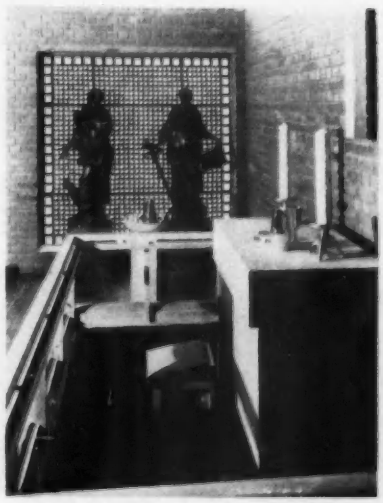




above : *Two views of the interior of the church taken from opposite sides*

The Danish Seamen's Church in Foreign Ports

left : *A general view of the interior looking towards the Altar*
below : *A detail of the Altar and the two 17th century figures of St. Peter and St. Paul standing in front of the glass mosaic window*



THIS new Seamen's Church and Mission replaces the worn out premises now in Limehouse.

The site is on the corner of Commercial-road and Yorkshire-road, opposite the Rotherhithe Tunnel approach, and while it is an awkward triangular-shaped one with a railway viaduct behind and noisy roads on two sides, it is very well placed for communications with the various docks.

The function of the building is to provide spiritual and social facilities for seamen from Danish ships coming to the London docks.

The building has been designed on the assumption that

The internal garden court which is surrounded by the domestic accommodation. All the social rooms open on to this court

A section of the domestic accommodation with the garden court through the window on the left

The Danish Seamen's Church in Foreign Ports

it will be the terminal building to this portion of the street. The adjoining present empty building, the former 'Star' tavern, will be demolished when future road widening takes place.

The main non-domestic accommodation occupies the whole of the ground floor and consists of a small church (45 seats plus gallery), reading room, lounge, billiard room and meeting room. This latter room can be used as an extension to the church to provide additional seating on special occasions.

The social rooms are planned round a small internal garden court which not only provides light and air but also a pleasant outlook to the rooms.

The church contains two 17th century carved wood figures of Saint Peter and Saint Paul, by the sculptor Cibber, who was also responsible for the sculptured panels at the base of The Monument. Behind these figures is an abstract glass mosaic window, made by the Danish sculptor Palle Bruun and designed by him in co-operation with Holger Jensen. The organ was designed by Holger Jensen in co-operation with the makers, Th. Frobenius & Co. of Denmark.

On the second floor are two flats providing accommodation for the Pastor and the Warden.

The brickwork internally and externally to church, etc., is of dark brown Leicestershire facing brick. Apart from the church, which is of load-bearing brickwork, the remainder of the building is of reinforced concrete framework, with cement infill wall panels rendered and painted in various shades of grey externally.

The roofs are flat with the exception of the church, which is approximately 'M'-shaped, covered in copper.

In the church itself all the woodwork is in plain pinewood, wax finished.

The light fittings and clock were supplied by Louis Poulsen of Copenhagen. The furniture was supplied by Fritz Hansen through Nordiske Andels-Eksport, Copenhagen.

The altar and font silver-ware was designed by Holger Jensen and supplied by Dansk Paramenthandel, Copenhagen, and the pulpit was made and donated by Arthur Sorensen of Esbjerg, to the design of Holger Jensen.

Sub-contractors and Suppliers:

Altar, font, foundation and memorial stones, J. Whitehead & Sons, Ltd.; *anchor motif on external cross*, A. Arden & Co., Ltd.; *bell*, Mears & Stainbank; *curtains*, Heal's Contracts, Ltd.; *electrical installation*, W. H. Gaze & Sons, Ltd.; *facing bricks*, R. Y. Ames, Ltd.; *flagstaff*, John Edgington & Co., Ltd.; *flush doors*, Jayanbee Joinery, Ltd.; *concrete tiles*, Langley London, Ltd.; *cork and plastic flooring*, Armstrong Cork Co., Ltd.; *garden work*, F. C. Courten & Co., Ltd.; *heating installation*, Weatherfoil Heating Systems, Ltd.; *ironmongery*, Alfred G. Roberts, Ltd., Tomo Trading Co., Ltd.; *joinery*, W. H. Gaze & Sons, Ltd.; *kitchen fittings*, Built-In Fixtures, Ltd.; *ladder* (roof access), H. C. Slingsby, Ltd.; *lettering*, Lettering Centre; *metalwork*, Light Steelwork (1925), Ltd.; *mirrors*, London Sand Blast Decorative Glass Works, Ltd.; *pavement lights*, Haywards, Ltd.; *pre-cast concrete pergola*, Vibrated Concrete Construction Co., Ltd.; *copper roofing*, Holloway Metal Roofs, Ltd.; *felt roofing*, H. V. Smith & Co., Ltd.; *rooflights*, Quicktho Engineering, Ltd.; *sanitary fittings*, John Bolding & Sons, Ltd.; *wood windows*, Rippers, Ltd.

News of the Week

RIBA Colour Conference

THE RIBA's Science Committee has arranged a conference on the design of co-ordinated colour ranges for building products, to be held at the RIBA at 2.30 p.m. on Tuesday June 2. The principal speaker will be Mr. H. L. Gloag, AA, Dipl, ARIBA, of the Building Research Station.

In 1955 BS2660 'Colours for Building and Decorative Paints' was published as the result of collaboration between the Royal Institute, the Building Research Station, and the paint industry. It was a new departure, devised to provide for architects a representative, systematic and harmonious range of colours which would at the same time minimise demands upon the industry for special colours. Its design was based on the Munsell classification of colours.

Since then, attention has been given to the colour ranges for the very many materials and products which receive their colour in the factory. The purposes of the present meeting is to propose an approach to the design of these ranges aimed at making them easier to use in themselves or with the British Standard colours, and as directly related as possible to functional needs. As part of the background to these proposals, a survey of about 150 existing ranges, relating to wall, floor and ceiling finishes and important items of office, kitchen and bathroom equipment, has been carried out at the Building Research Station.

Coventry Cathedral Exhibition

VISITORS to Coventry Cathedral are now able to see an exhibition of materials used in the construction of the new Cathedral. The exhibition has been designed by Mr. Basil Spence, PRIBA, the architect for the Cathedral. Exhibits include four sections of the stained glass windows, pieces of the several types of marble which will be used in the floor of the nave, copper to be used on the roof, a block of the pink Hollington sandstone in which the Cathedral's walls are built and an example of the carvings Mr. Ralph Beyer is to do for the murals in the window recesses. Covering one wall of the Coventry Appeal Centre, where the exhibition is staged, is a photographic enlargement of a drawing of the new Cathedral as it will appear from Priory-street.

A College of Technologists

THE ESTABLISHMENT of The College of Technologists was announced on May 20 by the Governing Body of the National Council for Technological Awards, the Chairman of which is Lord Hives.

The College will administer the award of Membership of The College of Technologists (MCT) which the National Council propose to create as a qualification higher than the Diploma in Technology. The College of Technologists will operate within the framework of the National Council for Technological Awards and will be served by the same administrative staff.

A Board of Scientific and Industrial Studies is to be responsible for the academic and industrial aspects of the administration of the award. The Governing Body of the National Council has met as the Court of the College and appointed Sir Arnold Hall as chairman of the Board.

Royal Gold Medallist

MR. L. MIES VAN DER ROHE was invested by the President RIBA with the Royal Gold Medal for Architecture, 1959, at a ceremony held in the RIBA on Tuesday night. Tributes to him were paid by Sir William Holford, the Hon. Lionel Brett, J. M. Richards, R. Llewelyn Davies and Peter Chamberlin. The Royal Gold Medallist briefly replied. The ceremony, which was filmed, will be reported in our next issue.

Ceramic Sanitaryware Competition

THE ASSESSORS in the competition organised by Associated Builders' Merchants Ltd. for designs for ceramic sanitaryware have agreed upon sets of drawings submitted by three competitors as suitable to go forward to the final stage, in which further drawings will be prepared and production of prototypes arranged with nominated manufacturers. The final award of 1st, 2nd and 3rd prizes will then be made. The three finalists are: L. Daniels, Dip. Arch, ARIBA, Hanley School of Architecture, Hanley, Stoke-on-Trent; John V. Sharp, ARIBA, 61 Stradella-road, SE24; and Gordon H. Taylor, 16 Riley-crescent, Penn Fields, Wolverhampton.

Truscon Travelling Scholarship

THE selection committee, Mr. C. S. White, FRIBA, Mr. Gordon Graham, ARIBA, and Mr. Hugh Weeks, CMG, announce the award of the 1959 Truscon Travelling Scholarship to Mr. Peter Whiteley, AADipl(Hons), ARIBA, of London, who is in private practice. A similar scholarship has been awarded to Mr. D. F. Smith, BE, an engineer in Truscon's Liverpool office.

Each scholarship is valued at £125 and will enable the recipients to undertake a Continental tour of about three weeks' duration. They will jointly study concrete work with particular reference to collaboration between architect and engineer.

Mr. Woodbine Parish

ON JUNE 8, Mr. David Woodbine Parish —until recently chairman and managing director of Holliday and Greenwood—is joining the Bovis Holdings Group as a director. Mr. Woodbine Parish is the President-elect of the National Federation of Building Trades Employers.

Mr. Woodbine Parish is on the same day to be appointed chairman of Bovis Ltd., one of the subsidiaries of Bovis Holdings, thus relieving Sir Keith Joseph, Bt, MP, who assumed the chairmanship temporarily. Sir Keith will now be returning to his other appointments within the Bovis Holdings Group which are more consonant with his parliamentary duties.

Coincident with this announcement, Bovis, Ltd., have issued an excellently produced book in which their system of building for a fee is clearly explained. Copies are obtainable from the company at Stanhope Gate, W1.

To Study British Planning

TWENTY-NINE-YEAR-OLD Brazilian architect Jayme Zettel has arrived to take up a three-months' bursary awarded by the British Council. Working for NOVACAP (Companhia Urbanizadora Da Nova Capital) under Oscar Niemeyer, he is assistant architect to Lucio Costa and has been engaged on the development of the pilot plan for Brazilia, the new capital of Brazil. He will study regional planning including new towns and road projects.

American Museum in Britain

MR. IAN MCCALLUM, executive editor of the 'Architectural Review,' has been appointed director of the first American museum in Europe now being established at Claverton on the edge of the City of Bath, Somerset. The collection will illustrate the development of the American decorative arts from the seventeenth to the nineteenth century, in the form of complete rooms accurately furnished and equipped to give the European visitor a clear and comprehensive picture of the background to American domestic life through these centuries. Some of the exhibits have already arrived across the Atlantic and more are on the way, thus reversing for the first time the flow of European art to America.

PROFESSIONAL ANNOUNCEMENTS

MR. E. W. VARLEY, ARICS, and MR. BERNARD LAWTON, ARICS, chartered quantity surveyors, have now moved their office to 41 Wigmore-st., W1. (Tel.: Hunter 1856.)

MESSRS. R. W. GREGORY & PARTNERS, consulting engineers, of Newcastle-on-Tyne, Manchester and London, announce that MR. HUGH G. BELL, MSc (Tech), MIEE, has joined them as consultant as from May 1, 1959. Mr. Bell recently retired from the position of Chief Engineer to the North Western Electricity Board.

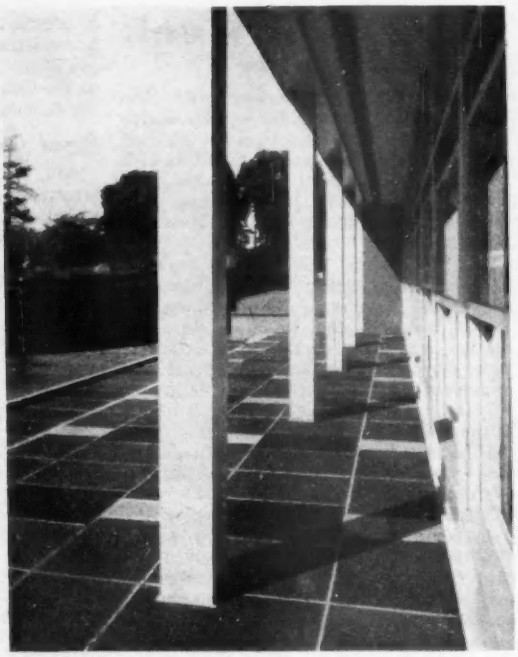
MR. W. E. J. BUDGEN has commenced practice as a consulting civil and structural engineer under the style of MESSRS. W. E. J. BUDGEN AND PARTNERS, at 54 Queen Anne-st., London, W1 (tel.: Welbeck 2642).

A HUNDRED YEARS AGO

From THE BUILDER *of May* 28, 1859

WHAT PASSES ON LONDON BRIDGE.—Mr. D. W. Harvey, the City Commissioner of Police, has published a table showing the traffic over London-bridge in twenty-four hours, from 6 p.m. on March 16 until 6 p.m. on the 17th. . . . The total number of passengers in carriages and on foot amounted, in the twenty-four hours, to 167,910, or at the average rate of about 6,996 per hour, night and day. At the hours from ten to eleven o'clock in the morning the stream of people passed over the bridge at the rate of 13,433, or about 224 every minute. This was the largest number of persons who passed during an hour. Between six and seven in the evening was the next greatest throng. During this time the passengers amounted to 13,361.

During the twenty-four hours the number of carriages amounted to 20,498, or an average of about 854 an hour. The 20,500 carriages consist of 4,483 cabs, 4,286 omnibuses, 9,245 wagons, carts, etc.; other vehicles, 2,430. Horses led or ridden, 54. The greatest number of carriages in any hour was between ten and eleven o'clock in the forenoon, when 1,764 carriages passed over the bridge.



Part of the new surface finishes display area, showing patterns that can be produced with a 'Shadowal' block (Atlas Stone Co. Ltd.). On the right is a wall of 'Reformite' (split) blocks made by Selleck, Nicholls & Co. Ltd. The photograph to right shows the canteen terrace of the Training Course building paved with dark red, black and 'near-white' pre-cast slabs.

CHESTNUTS AND CONCRETE

From a Special Correspondent

THE Cement and Concrete Association are always pleased to be able to show architects, engineers and builders the work they carry out at Wexham Springs in Buckinghamshire. However, May 13 was made a special occasion in that a garden party was held and Señor Felix Candela opened a display of surface finishes and decorative paving slabs. This well-organised function was attended by many hundreds of people who cannot have failed to have been impressed by the speeches, the hospitality and the display.

The introductory speech was lucid and excellently short and Señor Candela even shorter but, nevertheless, carrying out his duty in a charming manner. Although this was the end of his tour of Great Britain, the Professor was certainly not one to be at a loss for words and in his lectures he, one gathers, never once repeated himself, which is one of the reasons for the great success of his visit. The exhibition of a few photographs of the work of Candela and his associates in Mexico occasioned interest among the non-professionals present as much as by the professionals.

It is to be hoped that the distinguished visitor and opener was as duly impressed with the warm spring evening as was his English audience. Weather conditions could not have been more perfect and the chestnuts were dressed in all their full glory of candles. Azaleas and other flowering shrubs and trees were much admired and the thousands of shades of fresh greens were a delight to anyone who had been working in a City office; let alone anyone from Spain and Mexico, possibly anticipating a murky fog.

But the greatest advantage of the bright sunny weather was that the new series of display walls and frames were seen to such excellent advantage. The walls illustrated many varieties of textures and patterns which can be given to concrete by casting in moulds or against formwork. The most successful designs were those that honestly accepted the fact that basically the materials were aggregate and cement; it was when other materials such as natural stone and glazed ware were being 'copied' that the result was often unsatisfactory.

The work of Mr. William Mitchell, design consultant, was well represented, and his mural built up of precast units set many a camera shutter working. A panel composed of slabs to quarter full-size which will clad the end walls of a 19-storey block of flats in Stepney (architect to the London County Council, Hubert Bennett, FRIBA) was arranged with a marker so that some idea of the effect of the 200-ft. high building could be obtained but the exhibit, being new, did not show the weather staining which appears likely to have the same effect as that of camouflaging.

Riven face 'Maclit' plates manufactured by Kendell's Stone and Paving Co. Ltd. in panel No. 5, provided a good example of an applied finish to a concrete block wall, but the pierced screen wall blocks shown by the same firm (designer, Mr. Edward Stone) were disappointing and reminiscent of terra-cotta blocks of an earlier age or the speculative builder who wished to have a garden wall of novel design.

Patterned blocks with an egg-shell surface, obtained by casting against thermoplastic form linings, were shown in a panel by Modular Concrete Co. Ltd. (designer, Mr. J. D. Binns) in such a manner that the variety of patterns which could be produced from one standard block was worthy of note. A somewhat similar exhibit, in that it showed a wide range of patterns using a standard block, was by Atlas Stone Co. Ltd. with their 'Shadowal' blocks with some blocks painted in a cement-base paint and others with a terra-cotta sand-textured paint, but this treatment seemed to disappoint some of the functionalists present.

COMING EVENTS

MONDAY, JUNE 1

BRITISH ELECTRICAL POWER CONVENTION.—Exhibition. North Quay, Torquay. Mon. to Thurs.: 10 a.m.-9 p.m. Fri.: 10 a.m.-1 p.m. (until May 5).

TUESDAY, JUNE 2

'ORGANISING FOR PROFIT IN BUILDING.'—One-day Conference for the building industry in N-E England. Metropole Hotel, Leeds. 9.30 a.m.

RIBA.—Colour conference. Principal speaker: Mr. H. L. Gloag, ARIBA. Henry Jarvis Hall, RIBA, 66 Portland-pl., W1. 2.30 p.m.

WEDNESDAY, JUNE 3

IAAS (Wealden Branch).—Visit to Gatwick Airport. 3 p.m.

THURSDAY, JUNE 4

ROADS IMPROVEMENT ASSOCIATION (INCORPORATED).—72nd annual meeting. RAC Club, Pall Mall, SW1. 12 noon.

COUNCIL FOR VISUAL EDUCATION.—Annual meeting and paper on 'Civic Responsibility,' by Mr. J. Gloag, Hon. ARIBA. Housing Centre, 13 Suffolk-st., SW1. 3 p.m.

Institute of Builders' Progress

THE INSTITUTE OF BUILDERS, at a special general meeting on May 20, approved the new constitution for the Institute (the purpose of which was outlined in *The Builder* of May 8). Mr. G. O. Swayne, OBE, has now taken over the office of President. The annual report (now issued from 48, Bedford-square) indicates that membership at April 1 last was 4,102, an increase over the figures at June, 1956, of 1,920.

THREE INDUSTRIAL BUILDINGS at Duxford, for CIBA (ARL) Ltd.

THREE interesting new buildings were shown to visitors at the 25th anniversary celebrations, held last week, of CIBA (ARL) Ltd. The first is the Araldite plant, which is constructed of reinforced concrete clad almost entirely with glazed curtain walling. It provides for a total working area on four floors of 16,300 sq. ft. The staircase is enclosed in a tower 82ft. high the top of which is occupied by a water tank with a capacity of 30,000 gallons.

In view of the nature of the processes to be carried out in this plant, both the building and the equipment have been designed to keep fire hazards to a minimum. A 'background' ventilation system provides frequent changes of air and this can be changed to impose additional ventilation when required.

Two ancillary buildings, the control laboratory and the switch house together with tanks containing inflammable solvents are sited away from the main factory blocks. This has been done as an added precaution against fire hazard. On the east side of the plant is a brick built store with a floor space of 4,700 sq. ft. The feature of this store is the roof which is supported by four lathed timber trusses, each of 72ft. span. All doors are protected internally against fire.

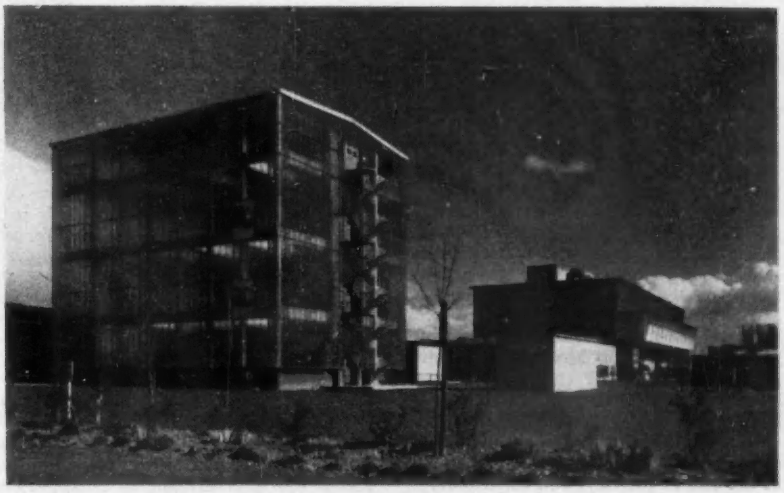
Research Block

AN L-shaped building two storeys high of pre-cast and *in situ* concrete construction and brick, with a flat roof. It encloses two sides of a quadrant laid out with a lawn and flagged paths. The walls consist mainly of large panels of polished plate glass. Teak, in conjunction with exposed facing bricks and white paint, is used extensively inside the building. Heating is by means of hot water radiant panels in the ceiling and a system of ducting is built throughout the block to provide ventilation. The total floor space is 12,800 sq. ft.

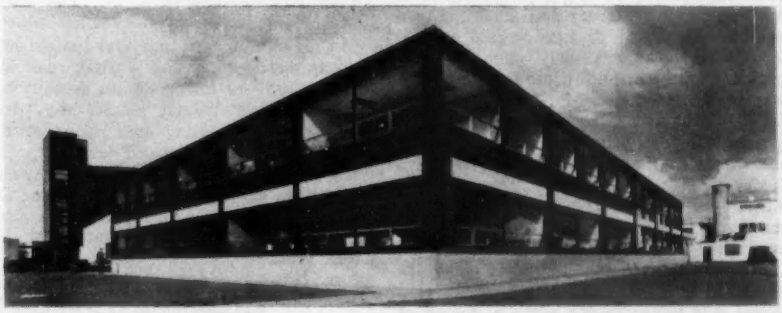
Sales Block

HERE existing buildings have been extended by the addition of two wings enclosing a courtyard. This provides floor space of 15,000 sq. ft. consisting of a display room, two laboratories and 38 offices, 33 of which are contained in the three storey brick built wing. The wing 'facing the road' is timber built of two storeys with a flat roof, the upper floor being supported on portal frames. The single stanchion of these frames is branched to form a main bearing inside the building and a short cantilever section outside; the frames are entirely exposed to form a major feature. The display room, which is 70 ft. by 20 ft. is paved with blue hawk tiles. Heating is by means of circulated hot water under the floor.

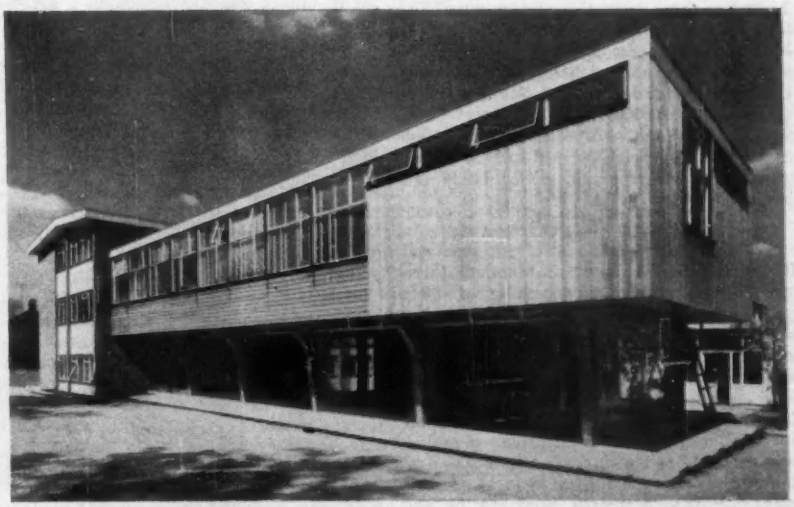
The building contractors for the Araldite Plant and the Research Block were Messrs. William Sindall Limited. Messrs. F. J. & T. E. Prime carried out the building work for the Sales Block. The process pipework, heating and ventilating systems were by G. N. Haden & Sons, Ltd. The electrical installation was by Rashleigh Phillips & Co., Ltd.



ARALDITE BLOCK.—Architect : P. M. Dowson, ARIBA ; Consulting Engineers : Messrs. Ove Arup & Partners.



RESEARCH BLOCK.—Architect : P. M. Dowson, ARIBA ; Consulting Engineers : Messrs. Ove Arup & Partners.



SALES BLOCK.—Architects : Messrs. Westwood Sons & Partners.

'THE LIVING TOWN'

Stimulating Symposium at the RIBA

From a Correspondent

ON May 22, 410 people paid for the privilege of attending the all-day RIBA symposium 'The Living Town,' with the declared object of initiating a new drive for the replanning and renewal of the centres of our cities and towns.

Distinguished planners, who if not at the RIBA would have been joining in the Town Planning Institute conference at Southport no doubt, read papers on their experience in practice and gave suggestions for the future. In this they were assisted by two speakers on the subject of the local government team in action in the persons of Mr. Richard Edmonds (chairman, LCC Town Planning Committee) and Mr. Hubert Bennett, FRIBA (architect to the LCC). With eight speakers it was a wise decision to have someone who could be called upon to give a summary at the end of the day, and fortunately for everyone present this was the task of the Hon. Lionel Brett, FRIBA, vice-president, RIBA, who briefly and kindly, picked out the salient points.

The chairman, Professor Sir William Holford, FRIBA, PPTPI, kept matters flowing in an expert manner and made his own helpful comments. A considerable amount of thought had obviously gone into the planning of the arrangements for the day as was shown by having MR. PERCY JOHNSON-MARSHALL start off the morning session by giving a repeat performance, of necessity shortened, of the paper on Comprehensive Redevelopment which was given at the RIBA last December, which set a new standard for instruction combined with entertainment.

Mr. Johnson-Marshall knows how to laugh at himself and at fellow-planners, which is a virtue unlike when a comedian laughs at his own jokes. Even if a slide gets, inadvertently, projected upsidedown the point is nevertheless made and accepted by the audience.

After a packed lunch, mainly of carbohydrates, there was the strong possibility that the audience would doze off, no matter how interesting the speaker and the subject. But this too had been considered and the planners had arranged for Sir Hugh Casson, RDI, FRIBA, to talk on 'Town Sense.' This fugitive leprechaun was in one of his most quippish moods and, in consequence, the danger period passed safely and instructively.

Practical Experience

Following on the survey of the past and its problems by Mr. Johnson-Marshall, three architect-planners told something of their present work with its problems and heartaches. MR. ARTHUR G. LING, FRIBA, spoke of Coventry and its particular difficulties which made him feel that comprehensive land ownership is the starting-point for re-integration of the design effort. The need for enthusiastic comprehensive planning was essential and without it a new sense of purpose would not be given to local government. Private enterprise need not be excluded, but the advantages of having the local authority in control of redevelopment works were many and co-operation between public and private developers and their architects and professional advisers was perfectly possible. A start had been made in Coventry which promised well, but a change in housing subsidies was vital without further delay.

Mr. Ling concluded his illustrated paper by drawing attention to the need for new legislation to bring together all the powers distributed among various Ministries and Acts, and included was the question of subsidy which was needed for an area rather than a particular type of building.

The Example of Norwich

The example of Norwich was put forward by their city architect, MR. D. E. PERCIVAL, ARIBA, and among points dealt with was that of over-concentration on three-bedroom accommodation which characterized housing administration in the first half of this century, and that mixed development was essential to social balance. Division of responsibilities between engineer and architect caused obvious difficulties just as much as those between local government committees.

An illustration of a marginal site between housing development and a trunk road was given; it was by no means an amenity for the simple reason that neither the parks committee, the housing committee nor the highways committee would take responsibility for various reasons. Among other illustrations shown were several showing the imaginative re-furbishing or Magdalen-street in Norwich under the inspiration of the Civic Trust. Following this co-operative effort, between private owners and local authority, Mr. Percival also made the point that co-operation in redevelopment was perfectly possible.

MR. P. CHAMBERLIN, FRIBA, with his experience of such sites as Golden Lane and the Barbican in London, had much of interest to impart and this he did in a straightforward manner. The importance of a co-ordinating committee was essential in any large-scale redevelopment scheme, saving as it did time, labour and money. Recent remarks made by retired generals, Eisenhower and Bradley, were quoted and received sympathetic murmurs of agreement from the audience. Not so the appeal that less should be spent on 'fireworks' and more on redevelopment, for this occasioned the only interruption, during the whole day, by the audience in the form of prolonged applause.

Whilst slides and quips illustrated many of the points which SIR HUGH CASSON wished to make in the afternoon session, his main remarks led the way for the remaining speakers. Emphasis was on the fact that the job was for everyone but that the technicians would bear the brunt, although it was necessary that they be supported by elected members of the local authority and by informed citizens. Seemingly outrageous statements such as 'The essence of planning is being unfair' and 'Never trust to reason for it never gets you anywhere in this country' were enjoyed and, what is more, feelingly accepted.

A quotation, concerning urban renewal, from an official governmental bulletin was the start to the scholarly paper by PROFESSOR ROBERT H. MATTHEW, CBE, FRIBA, and although this proved to be from a USA source, it did allow the speaker to point out that leadership from the government in this country was now entirely lacking. All impetus had gone and ideals and visions which flourished but a few years ago had disappeared. The reason was simple for there was no national plan, no regional plans and not even statements from the Government to give a little heart.

Mr. Matthew was another speaker to warn of divisions of responsibilities and that imaginative control was needed which could bring public and private initiative together at the planning stage. In conclusion, it was pointed out that if President Eisenhower and Mr. Khruschev can put urban renewal in front of their national policies, and back their words with action, then planning pays and we in this country should have the imagination to learn that lesson.

The contribution by MR. RICHARD EDMONDS, speaking as an elected representative of the people, formed a good contrast to the papers by the technicians. Besides adding more words on the need for teamwork, Mr. Edmonds spoke of the start that London had been able to make with their neighbourhood units in the centre of the city. MR. HUBERT BENNETT illustrated many of his points with a splendid series of coloured slides, taken from a helicopter, of Caracas, Venezuela, which he had recently visited. The Elephant and Castle redevelopment area in London was discussed in relationship to the advantages of getting both private and public authority clients to co-operate at the earliest possible stage.

Discussion

A discussion, not surprisingly of a lower standard than the previous proceedings, followed, but in the short time available few speakers had much of an opportunity to contribute to the subject. However, the experience of MR. MAX LOCK in preparing a redevelopment plan for Sevenoaks, Kent, and getting agreement from all concerned before the public inquiry took place prompted a number of questions and remarks. Several speakers advocated better publicity by architects and planners in the interests of architecture and planning.

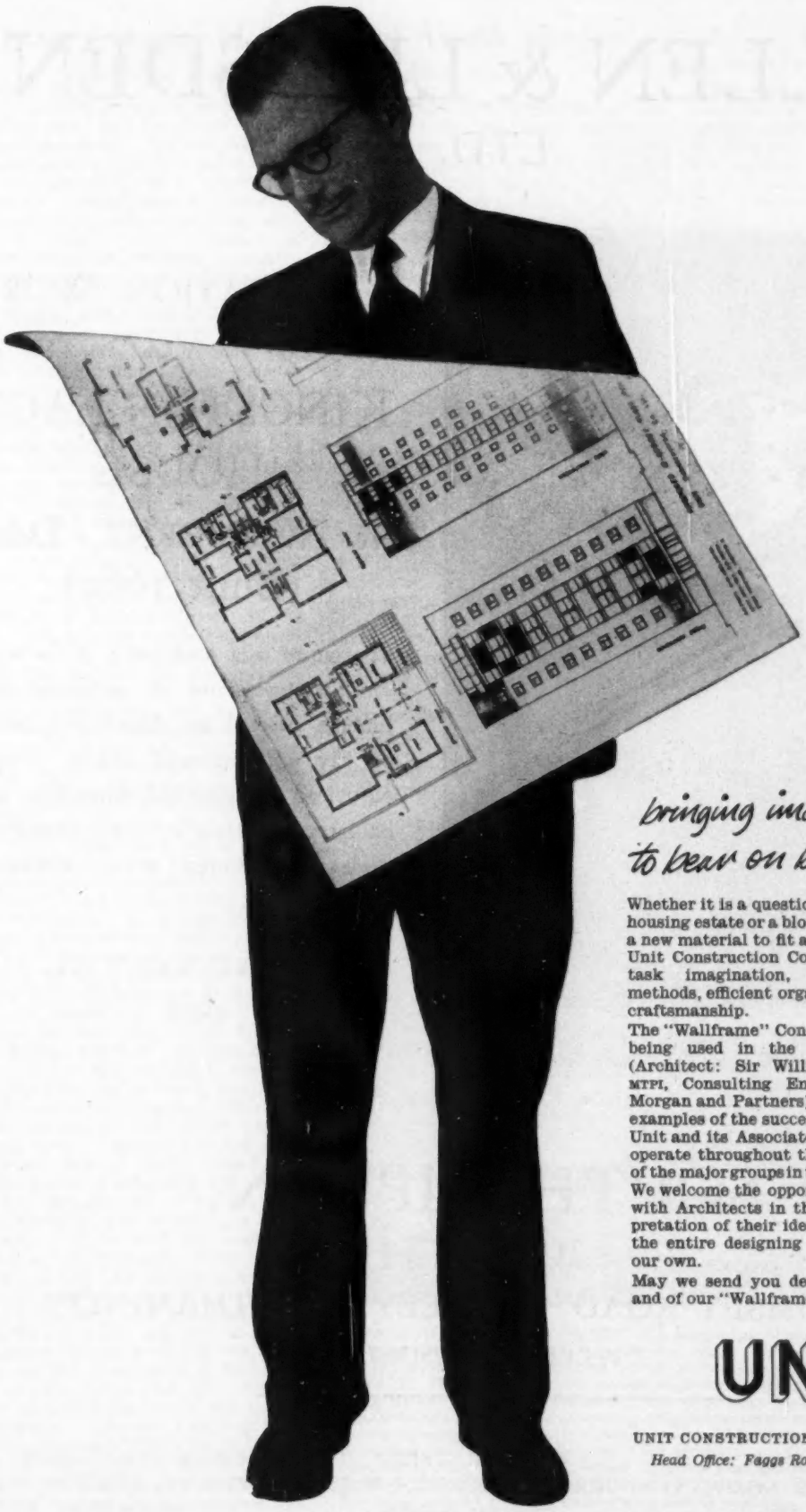
Earlier in the day the RIBA President, MR. BASIL SPENCE, had pointed out in his speech opening the symposium that better public relations in planning were needed, and it was necessary to explain to the public what was wanted to be done in order to carry the public along with them.

The CHAIRMAN had, when introducing the subject of 'The Living Town,' expressed the hope that it was to be a memorable day. So it proved.

COMPETITION NEWS

Civic Offices and Pool, Corby

CORBY (NORTHANTS) UDC is organising an architectural competition for the provision of Civic Offices, Assembly Hall and Swimming Bath in the New Town Centre. Mr. Edward D. Mills, CBE, FRIBA, is assessor and applications for conditions will be invited towards the end of June.



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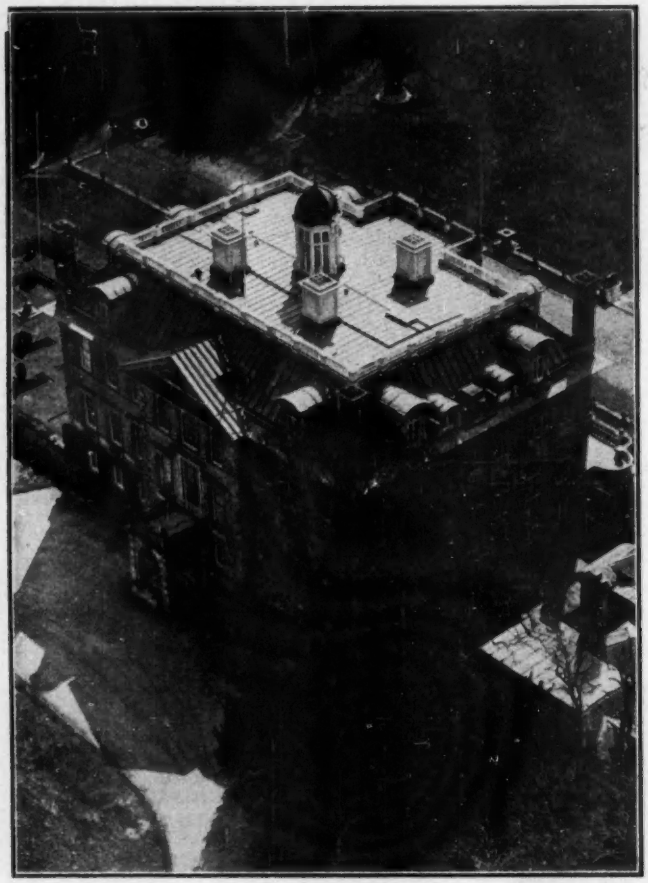

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King George VI Memorial Youth Hostel

Architects' Deft Solution of a Difficult Problem

IN architecture as with everything else, hopes for the future lie in the younger generation. To crisp-up that platitude, however, may one add that they will no doubt take a more constructive interest in it when they have decided what, and whom, they are so angry with.

On the whole, it does not seem to be their architects, but meantime the slightly older ones seem to be still providing when it comes to the doing, and this is being done without undue tantrums at either production or receiving ends—and with conspicuous architectural success. This applies down (or up) to caffé espresso society, but not the denizens of the juke-bôiteries or the junior stockbroker's sycophants of the saloon bar.

I doubt whether that admirable and realistic institution the Youth Hostels Association is concerned with either of those distressingly analogous fringes. But even their narrowed-down problem of architectural catering must have its complications when the site is an almost surrealist urban oasis, and adjoins relics of such art-historical and landscaping importance as Holland House and its Park. The practical make-do-and-mend requirements alone will have called for considerable ingenuity, but even more so the aesthetic ones.

Without overplaying such embarrassing words as 'perceptiveness' the wisdom of the choice of Sir Hugh Casson and Neville Conder cannot be stressed enough. Half a dozen architects might have designed a good Youth Hostel commemorating a Monarch: but I cannot think of any others who could have done this in uncompromising idiom, in close juxtaposition with the blasted relics of a Jacobean mansion and its recently-derelict park—themselves an incongruity, and possessing an emotional significance to Londoners not always shared by its transient, and cosmopolitan, new patrons.

How deftly the architects grasped the nettle is shown by Casson's Royal Academy drawing hung in the Hostel's Quiet Room. But their own notes on the scheme are so clear-cut that I must try to abridge them for quotation here. The salient points were (a) to sleep 200 round a court (in the university sense) without physical contact between old and new: (b) to do this by flexibly-linked and levelled grouping enhancing the dominance and apparent bulk of the old, leaving it 'inviolate' and visible from many viewpoints; (c) to nail the point by making a new five-storey block 'read' as three, and (d) to exclude and mutilate the park as little as possible.

In all this they have succeeded. The low links are brick, and refer to rather than match the old work. If one has a small criticism, I wondered if the inevitable physical hinge—the low revetted screen damming the north end of the 'long water' might not have had some textural distinction from the rest—say, in hard-baked header-courses. This 'wrap-around' ties the court and the new work not only to the reconstituted old, but to the now-fragmentary continuation of the old house westwards, simultaneously (to quote the architects) shifting the centre of gravity so as to give the remaining East Wing an importance in the new complex which it did not possess as one of the arms of the (later) 17th c. H-plan.

The tall block is end-on to the latter and is in deliberate contrast, being faced in stucco and painted in a two-tone variant of the 'Thames Green' so long in coming, so likely to stay, and here so compatible with but distinguishable from the natural green of trees and grass. A crowning subtlety is its echoing the pilaster-and-panel treatment of the original (for similar structural reasons, though there formalised) without the slightest suggestion of tongue-in-cheek, by exposing the structural frame. Indeed, this characterises the whole scheme, and is an object lesson to more mortician-minded preservationists.

I wish I had space for the furnishing and interior, but in this case the visual impact of the elevations is more important. The decorations are notable for their stimulating colour, and the equipment a happy collaboration between client and architects. On Press day, partly because of unpredicted fine weather (which one heartily hopes for the Royal opening) the George VI Youth Hostel seemed a particularly comfortable, relaxed and well-mannered extension of one of London's assets.

BASIL MARRIOTT.

CRICKET

AA Draw with Vitruvians

THE ANNUAL MATCH between the Vitruvians (the technical Press XI) and the Architectural Association, played at Boreham Wood on May 19, ended in a draw. Batting first, the Press XI scored 183 for five before declaring, Leighton and Mudie putting on over a hundred undefeated for the sixth wicket. Etherton bowled better than his figures show. Wickets fell steadily during the AA innings, and only a good knock by Farrow, with help from Spooner and Thompson, saved a rout. Lamming and Dunham held out in the final over. Lodge for the Vitruvians bowled well for his five wickets. Scores:

Vitruvians			
J. Aitchison		b. Etherton	0
C. Eyre	c. Lamming	b. Nicholls	18
J. Lodge		b. Spooner	7
J. Patrick	run out		9
A. Barnett	c. Dunham	b. Nicholls	15
C. Leighton	not out		62
R. Mudie	not out		47
L. Dessart	Did not bat		
C. Parsey			
R. Binfield			
W. A. K. Faldo			
Extras			25
	Total for 5 wickets dec.		183

Architectural Association			
Nicholls	lbw	b. Lodge	0
Cross	c. Dessart	b. Lodge	6
Spooner		b. Leighton	26
Evans	c. Binfield	b. Leighton	9
Thompson	c. Leighton	b. Barnett	21
Farrow		b. Mudie	42
Padamsee		b. Lodge	1
Plumb	lbw	b. Lodge	1
Etherton		b. Lodge	9
Lamming	not out		4
Dunham	not out		0
Extras			5
	Total for 9 wickets		124

MANCHESTER PICCADILLY PROJECT.—A perspective of the proposed development of the Manchester Corporation's Piccadilly site, which was recommended for approval by the estates management committee at the meeting of the City Council on Wednesday (April 29). The development will include shops at ground floor level; a garage and petrol filling station; a 250-bedroom hotel; one large office block; one small office block, incorporating conference and banqueting halls, and television audition and rehearsal rooms; an underground car park for 320 cars; and a roof-level car park for 180 cars over the two-storey shop and store building. The architects are Covell & Matthews, F/ARIBA (assistant in charge, B. G. Falk, ARIBA; assistant architect, P. J. Stubbings; perspectives by A. H. E. Shearing, ARIBA, and C. Hough); the quantity surveyors, J. O'L. Markham & Partners; and the civil and structural consulting engineers, Leonard and Grant

MECHANICAL SERVICES AND ARCHITECTURE

First Yerbury Foundation Lecture

MR. JORGEN VARMING, BSc., MIHVE, the distinguished Danish engineer, gave the first Yerbury Foundation lecture, on the subject of 'Mechanical Services and Architecture,' at the TUC Building, Great Russell-street, WC1, on May 20. Mr. Bryan Westwood, FRIBA, was in the chair. Mr. Varming said:—

The incorporation of mechanical services into architectural design is a subject with problems of so delicate and involved a nature that it requires a man with courage and with a philosophical mind to dig into it. I have no philosophical mind, but honoured by an invitation from the Yerbury Foundation to talk on such a fascinating subject I could not resist accepting and indulging myself on the problem.

The problem has no history. To my knowledge it did not exist even 60 years ago. The building process did not get all that involved until the beginning of this century. In fact upon investigation I found that the intercourse between the architect and the mechanical engineer started the year I was born—in 1906—or, at least, had just started.

I found this evidence in a sketch book of my father's of that year in the form of a poem which ran as follows (my father was an architect):

In the happy old days now long ago
When time was passing smoothly and slow
We architects had such a happy mind
With no interference of any kind.
Then we could breathe so freely and fair
Without this blasted conditioned air.
But what we were taught then from our birth
Is now reduced to nothing worth.
Who spoils the fun of the architect's task?
Who is the snake in the grass, you may ask?
Who will insist on these plant rooms and gears?
Who—but these confounded engineers!

Unfortunately this piece of poetry loses some of its flavour in the translation from Danish in which it was written. But it shows with emphasis that the trouble had started in 1906—and where indeed are we to-day?

A 'Classical Case'

Half a century does not make history. It only makes classical stories, and one which made some impression on me as a student I shall refer to here because it has a great deal of bearing on to-night's subject.

When the enormous cast iron radiators and clumsy pipes began to paralyse the architects' minds the resistance to the inevitable evolution seemed to have been fairly easily subdued by the engineers. But apparently a reaction started, and in 1910 Mr. Aubrey Thomas, an architect of Liverpool, threw the glove back into the face of the engineer and said something to the effect of 'all right, let us have a heating plant, but I refuse to accept one which has any visible parts of pipes or cast iron.'

This bullying attitude led to the remarkable invention of the low temperature panel heating system with concealed coils cast into the reinforced concrete structure, and I understand that the very first plant still works beautifully.

I do not know how bullying an attitude the architect did take up. I prefer to regard this story as an example of close and fruitful co-operation between architect, structural engineer and mechanical services engineer: three men with initiative, vision and common sense.

PART ONE: THE ARCHITECT AND THE MECHANICAL SERVICES CONSULTANT

In a recent joint meeting between the Royal Institute of British Architects and the Institution of Civil Engineers the collaboration between architect and engineer was discussed. Messrs. Jefferiss Mathews and Ove Arup opened the discussion by reading two papers on the subject which very clearly emphasised that architects and engineers are in fact far too aloof to each other.

In a talk on mechanical services and architecture, I find it difficult to ignore that such a complexity exists, and realising that the more it is discussed the better, I shall try to contribute in a modest way to such general discussions without which a solution will never be found.

The problem as I see it is one of *organisation*, and *education* and it has a *social aspect* as well.

Organisation

In an endeavour to find proposals for improvements it would be wise to bear in mind that the less revolutionary to the present practice the more readily such plans will be adopted.

Arrangements such as the particular American one, where architect, engineer and contractor combine in one firm, the so-called 'package service system,' for instance, will hardly thrive in Europe. It would completely change the present pattern of professions, by introducing commercial interests among the consultants.

It has often been maintained that the perfect case is only possible when one master brain conceives the complete design and makes all the necessary dispositions. Such a possibility is fortunately out of the question; however perfect, it would be a little dull, I think. But instead of regarding this utopian idea as a joke, let us see how this superman would proceed with the design.

However 'super' the man would be, he essentially must have a staff. And the staff would have to be made up of architects and engineers perfectly organised and presumably working under the same roof. This is where I think the superman will score his biggest triumphs!

And this is where I think an improvement to the present state of affairs can be made: it is absurd that a score or more of people working on the same project be scattered over three or even four offices so far apart that the majority never meet at all. For one thing it is highly irrational and unproductive. And furthermore, how can they learn to appreciate one another's work when their only communication is by telephone or correspondence? It is bad organisation and it is very unsocial.

For any large project I would therefore advocate a joint office with accommodation for the joint staff of architects and structural, mechanical and electrical engineers, all working on the mutual scheme and preferably nothing but this scheme.

I am talking from experience when maintaining that such arrangements are feasible and well worth setting up. It promotes friendship and understanding between the various professions. The people working on the scheme will gradually realise that their work is closely related, in point of fact very similar—they use the same tools, they learn to respect one another, they lunch together (and, of course, have tea together); they form a team. And when they have a problem they have the man who can solve it or attend to it within easy reach. In other words the system is organised as a self-contained team unit.

The team should have four men in charge, a quartet where the architect or his trusted partner or senior architect plays the first violin; the civil, mechanical services and the electrical engineers or their trusted partners or seniors play the other instruments.

In this case the architect is more artist than organiser, which is not unusual and indeed is in many cases most desirable; the civil engineer or any of the other engineers can take on the practical leadership of the team provided he has the tact, the administrative ability and, of course, the appreciation of architectural value required.

Time of Appointment

The next point I would like to bring up is an obvious one, but far too often the mechanical services consultant is selected when the project is too advanced, the design too rigid. Dare I say that this is particularly true in this country, and you may wish to know that I am not unfamiliar with British conditions as, happily, I am working on projects here.

It is essential that he be called in at the nebulous stage, and that design meetings are started early. It is all very well that the architect has already made provision for ducts and shafts, etc., but they are never exactly right and the consultant too often has to compromise at the very beginning. And there is more to it than ducts and shafts; insulation, condensation, vapour transmission and diffusion, for instance, are factors of paramount importance and influence on the architectural and structural main dispositions.

Another point is this, that being brought too late into the picture is most uninspiring, and the provisions which the architect is so proud of, have a tendency to kill the initiative and enthusiasm which is so essential if the services consultant is to

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rise above the boring state of routine design.

Arne Jacobsen once told me that when he is asked to build a house for someone the worst thing which can happen is that the client presents him with a sketch of what he wants. Usually such sketches are fairly sensible. The plan will work—but the flame has gone. I feel exactly that way when the architect has taken the initiative: the architect must accept that the engineer in his way is somewhat of an artist too—and not just a dead fish with a slide rule.

Technical Co-Education

A last point I shall mention is that improvements could be achieved if some kind of technical co-education of architects and engineers was brought about. This point was put by Mr. Jefferiss Mathews in the paper I mentioned before, and it is possibly the most important point. And I cannot help going a step further into the question of education and ask if the training of the heating engineer is exactly as it should be.

The heating engineer is in England somewhat of a Cinderella. He is sitting between two chairs—he is not a civil engineer and he is not a mechanical engineer. Not necessarily.

To exaggerate the point, a civil engineer's most important fundamental is *statics*, the mechanical engineer's is *mechanics*, and the heating engineer's is *physics*. Heat transfer, the behaviour of air jets, pipe flow, air conditioning is *physics*. It is not mechanical engineering. The designation 'mechanical services' is very misleading.

It is therefore quite natural that the heating engineer is not recognised by the Institution of Mechanical Engineers. He cannot join any of the chartered engineering institutions.

This may be one reason why so few university graduates go in for heating and ventilation, and the situation would most certainly improve if the Institution of Heating and Ventilating Engineers, which is an excellent institution, could obtain a Royal Charter and become recognised on the same level as the three large Institutions.

Continental Practice

The greater majority of heating engineers in the Scandinavian countries are graduated civil engineers.

I am not saying that the co-operation conditions are perfect in Scandinavia. They are not. But I feel that the heating engineers are more architecturally minded than in this country and I wonder if the reason is not to be found in the technological education: civil engineering and structures are, after all, more closely related to architecture than mechanics and metallurgy.

In Switzerland, where they have got the highest standard of heating engineers in the world, the education I admit is basically mechanical engineering. Aloofness between architect and engineer is not an infrequent phenomenon, I have been told, but still their buildings are well and efficiently built.

This may appear contradictory to what I just said about education, but it is not necessarily so. The excellent achievements in Switzerland may be explained by the argument that Swiss architects are more engineering minded than most of their foreign colleagues. They do put the technical aspect much in the foreground, which again may explain that in spite of the excellence of Swiss buildings some people find them somewhat heavy and uninspired.

However, my point is this, that engineers, whether civil or mechanical or electrical for that matter whose future job is tied up with that of architects, ought to have a thorough training in geometry and in free hand sketching, with the aim of achieving a sense of space and three-dimensional form. And with a thorough training in physics, in addition, the foundation is laid for a good heating engineer.

As regards technical co-education, it is important to realise that whilst practically all architects sooner or later will have contact and co-operation with engineers, only somewhere between 10 and 20 per cent of all engineers (as a pure guess) will ever have dealings with architects. And among the engineering students only very few, if any, go through their studies realising that they will spend their lives in contact with architecture. Only chance or a decision made at a much more mature stage of their lives will lead them to this.

I therefore put more value on some form of co-education performed at a later and more mature stage of the education than at an early stage; a post-graduate sort of thing.

An indication that this is right I found in Stockholm, where the architectural and engineering education is done in the same technical high school. Both are four-year courses with certain subjects in common during the first two years. I have been told that it does not work very efficiently from the point of view of mixing. The students form separate groups which do not mix at all.

No, it is surely at the later stage that efforts should be set in motion, and this is where the English view on qualification has a great advantage and in fact makes the position easier to improve than on the Continent.

In England, qualification is not accepted without additional practical training. On the Continent the degree in itself counts much more—far too much—and arrangements for post-graduate education do not exist. The graduates are immediately accepted by the professional institutions; no 'section C exams.' and 'two years' drawing office experience,' or anything like that spoil the dignity of the young graduate.

In England, where the graduates are accustomed to continue their education after they have started working for their living, it should be much easier to organise an education and test showing the ability and skill in the art of co-operation with architects.

As regards the architects, I understand that, at most architectural schools, in their final year the students carry out a complete design of a building; we call these projects the 'final examination schemes.' It would be most useful and surely important if these final schemes were carried out in collaboration with young graduate engineers.

And I feel sure that it would be feasible to let the young engineers and architects meet at this stage and experience the difficulties but also the excitement and inspiration of working closely together on a mutual project. If they were properly introduced into these problems during their education, they would learn to appreciate that co-operation is a subtle and enjoyable art.

PART TWO: MECHANICAL SERVICES AND ARCHITECTURE

What I have said so far has been concerning the mechanical services consultant and the architect. Before I proceed to talk on mechanical services and architecture I would I like to show some slides which will illustrate the interdependance of these two disciplines. They will also demonstrate, I hope, that provision and main disposition for the services, made at a very early stage of the design, will greatly—and favourably, I hope—influence plan, section, elevation, structure and appearance of buildings.

[Mr. Varming then showed a number of slides.]

There are, of course, an almost unlimited amount of plant and details of services which are important in connection with tonight's subject. I shall have to limit myself to talk briefly on a few items which I consider of particular and current interest.

Boiler Houses

Some enthusiast has said that 'anything you can walk into is architecture.' Let us accept this definition and walk into a boiler house. I don't mean the large boiler house serving industry and process which is so vital a focal point in plan and economy that it is obviously much in the foreground, but the boiler house or boiler room just for heating, ventilation and DHW use, which does not always get the attention it deserves. And yet it is a locality where large sums of money are turned into flames and ash, and where high economy in running costs should be of interest to all of us.

The Danish Building Research Station has been looking into the question of economy in this category of boiler plant. Their investigations indicate that the efficiency is appreciably higher in well planned, well lit and spacious boiler rooms than in badly planned ones, all technical apparatus being equal. In other words, it pays in the long run to spend money and effort on making practical working conditions in the boiler room, and it is not purely a welfare-state policy matter to create pleasant and attractive environments for the boiler attendant.

I do not recommend to go as far as at a plant room in Germany, where an enormous indirectly lit aquarium with goldfish was put up to the enlivening of the boiler attendants, but I strongly hold that it is the concern of the architect to support the heating engineer in his effort to make a neat layout and harmonious details.

After having tried a great number of boiler layouts, I have arrived at some degree of standardisation which I may demonstrate by some slides. They show two such typical boiler plants, both medium pressure hot water plant with pressurised expansion vessels, a type of plant which I find economical and appropriate in a majority of cases.

The last group of slides shows details. It includes radiators, which I show with the risk of being regarded as a little reactionary I am afraid, but which all the same very likely will see a revival in buildings where mechanical ventilation or air-conditioning is not a necessity.

A vote of thanks to Mr. Varming was proposed by DR. F. M. H. TAYLOR, and was seconded by MR. EDWARD D. MILLS, CBE, FRIBA.

COMPULSORY PURCHASE ORDER

Successful Appeal Against LCC

FOLLOWING a public inquiry held in November, 1958, the Minister of Housing and Local Government has decided not to confirm the London County Council (West Square, Southwark) Compulsory Purchase Order, 1958, made under the Housing Act, 1957.

It was submitted on behalf of the owner of 46 to 50 West-square that this detached block of five terrace houses formed part of an estate of 1-15 houses and one shop. About £4,000 had been spent on the five houses within the past five years, including the rebuilding of the front and part of the rear elevations; the dwellings were structurally sound and the roofs were in good condition. It was emphasised that the alleged defects were of little consequence and contended that the owner was willing and able to remedy the defects. It was further contended that it was inequitable and unnecessary for the Council to acquire this small part of the large estate now; it was not designated for redevelopment until 1973 to 2005, and the owner wanted to repair and retain the houses for an agreed period.

For the Council it was acknowledged that an attempt may have been made to maintain and repair the properties and that there was no evidence of instability, but there was some external and internal disrepair, including bulged rear walls to Reference Nos. 1, 2 and 3 (48, 49 and 50 West-square). It was submitted that the fundamental defects alleged as principal grounds could not be remedied at a reasonable cost. The Order land was zoned within the Development Plan as open space programmed within 1973 to 2005 and in the meantime it would be used either as a playing space for local children or for temporary housing.

The Inspector confirmed the defects stated as principal grounds, but accepted the owner's submission that these defects could be remedied at a reasonable cost. He was unable to accept the view that the Council's proposed interim use of the land was in the public interest. He therefore considered that the owner should be allowed to repair the properties.

The Minister states that he has given careful consideration to the representations put forward by both the objector and the Council. So far as unfitness is concerned he accepts the findings of the Inspector. He is not satisfied that the most satisfactory method of dealing with the conditions in the area is the demolition of all the buildings in the area. He considers that the owner should be encouraged to carry out such works as are necessary to render the houses fit for human habitation and accepts the Inspector's conclusion that action by the local authority under Part II of the Housing Act, 1957, would be appropriate.

ST. PAUL'S AREA

Church Commissioners' Appeal Dismissed

AN appeal by the Church Commissioners in respect of the development of a site north of St. Paul's Cathedral for offices, showrooms and shops has been dismissed by the Minister of Housing and Local Government, but the Commissioners have been invited to submit a fresh application on lines indicated by the Minister.

The site in question is bounded by Newgate-street, Warwick-lane, Paternoster-row and Panyer-alley. It is mostly in the ownership of the Church Commissioners, and forms part of the area included in Sir William Holford's plan for the redevelopment of the precincts of St. Paul's.

After the public inquiry which was held into the proposed amendment of the County of London Development Plan to take account of Sir William Holford's recommendations, the Minister expressed the view that the tower block some 260ft. high which Sir William had proposed to the north-west of the Cathedral would be bound to interfere with important views of the Cathedral, and asked that this part of the scheme should be reconsidered.

The area covered by the Church Commissioners' recent application includes the site of this particular block. On this, the Commissioners proposed that instead of a single high tower there should be twin towers, one 175ft. high and the other 165ft. Both the Common Council and the London County Council objected to the twin towers, however, and the Commissioners then offered, as an alternative, to put forward an amended scheme for a single tower block standing some 204ft. high above the pavement to Newgate-street, even though this would involve a loss of some 27,000 sq. ft. in floor space.

The Minister, in dismissing the Commissioners' appeal, indicated that he would be prepared to approve a new application on the lines of the Commissioners' revised proposal. He thought that a single tower of the kind now suggested would relate in scale with the other buildings to be erected on the site much better than the higher and bulkier block originally proposed, and would not have a serious effect on distant views of the dome of the Cathedral.

The Commissioners also undertook, when they came to put forward revised proposals, to make other amendments which would bring the scheme closer into line with the original Holford plan.

The Minister thought that it would be fitting that this important part of the precinct of the Cathedral should be redeveloped at the instance and under the control of the Commissioners.

FOREMEN AND CLERKS OF WORKS

London Council's Meeting

THE London Regional Council of Builders' Foremen and Clerks of Works met on April 29 at the headquarters of the RIBA, immediately before a film show and discussion organised by the council, and the following is a summary of some of the matters discussed at the meeting:

Foremen's Financial Responsibilities.—It was suggested that foremen were sometimes required to undertake considerable financial responsibility through the handling of cash and wages and particularly through the administering of 'subbing' which was still widespread in the industry. On occasions some foremen had suffered loss and had been penalised as a result of a mis-calculation particularly if the money involved was not covered by insurance. 'Subbing' was a bad practice and determined efforts should be made at national level to reduce or, if possible, abolish it.

The question was related to decasualisation of labour and to the importance of improving the quailty of labour in the industry. The Council noted the wide implications of this matter and members were asked to consider it and submit any comments in writing before the next meeting.

Employers and General Foremen's National Joint Advisory Committee.—The Council received a report of a meeting of the Committee held on April 24, when the principal item under discussion was the dissemination of technical information. The meeting had agreed that the information most needed could be classified under three headings:

(i) Technical information about new materials and plant.

(ii) Factual reports on new materials, particularly failures.

(iii) Management techniques such as results of work study.

Associations had been asked to discuss this matter with their members and to suggest further requirements. Other items discussed had included Courses for Lecturers in Foremanship studies and Site Offices for General Foremen. It was also agreed that the next meeting of the Council should be held on Wednesday, June 24, at 6 p.m.

BUILDING WAGES

Industrial Court Rejects 4d. Claim

THE National Joint Council for the Building Industry announced in London on May 21, that it had received the decision of the Industrial Court on the Building Operatives' claim for a wage increase of 4d. an hour. The Court has ruled that the claim has not been established.

The claim had come to the Industrial Court by way of the National Joint Council for the Building Industry which in February increased basic rates by 1d. per hour under the sliding-scale agreement by which wages are linked with the cost-of-living index, but rejected the additional claim of 4d. made outside that agreement.

It is understood that both sides of the National Joint Council are accepting the court's decision.

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HOUSING IN 1958

Ministry's Annual Report

THE report of the Ministry of Housing and Local Government for the year 1958 has been presented to Parliament by the Minister and is published by HMSO (price 10s. 6d.). As in the last two annual reports, one aspect of the Department's work has been chosen for special review. This year the subject is the history, scope and work of the district audit system. Following are points from the report:—

Overspill.—'Most early estimates of "overspill" have been drastically reduced,' says the report. 'But it is already clear that some large towns, notably those with a heavy programme of slum clearance, will have to accommodate outside their boundaries a substantially larger number of people than are catered for by the overspill projects so far agreed.' The report says that schemes under the Town Development Act are now making 'a small but valuable contribution' in the cases of London, the West Midlands and Bristol.

New Towns.—'Steady progress was made in the development of the eight London and four provincial new towns in England and Wales,' says the report. On the question of the pattern of housing development, the report says: 'Corporations have all along been alive to the danger that the new towns might become one-class communities and have sought to provide some houses of better quality than the general run . . . but the inclusion of small groups of houses designed for people with different social backgrounds was not universally popular and more recently the tendency has been to build middle-class houses in larger groups.'

Planning Appeals.—The number of appeals made to the Minister totalled 7,499, the largest number ever received in one year (6,921 in 1957). During the year 7,168 were disposed of (1,587 were allowed, 3,343 were dismissed and 2,238 were withdrawn).

Housing.—An important development during 1958 was the Government's decision to encourage a wider spread of owner-occupation and to give a new impetus to the modernisation of older houses.

For the first time since the war, private houses built in England and Wales exceeded the number completed by public authorities. The number (124,000) was a post war record and over 1,000 more than the 1957 figure. The number started during the year was 133,000 (nearly 122,000 in 1957).

Slum Clearance.—Some 55,000 houses were demolished or closed during 1958—the third year of the current five-year programme—and 156,000 people were rehoused. Taking into account the comparable figure for Scotland, about 205,000 people in Great Britain were rehoused. By the end of the year, therefore, the Government's target of rehousing not less than 200,000 people annually from the slums had been achieved.

House Building Costs and Sizes.—The average price of a local authority three-bedroom house for 1958 was £1,485 (£1,486 for 1957). Floor area was 903 sq. ft. (908 sq. ft. in 1957). In 1958, 18 per cent of local authority dwellings completed were one-bedroom (13 per cent in 1957); 36 per cent had two bedrooms (a slight increase), and 44 per cent had three bedrooms (nearly 5 per cent less than 1957).

'Tenders, as distinct from completions,' says the report, 'showed an even more marked trend to smaller houses. In the last quarter of 1958, no less than 22 per cent of the dwellings put into tender had only one bedroom, and 33 per cent had two. The increases in the proportion of small houses reflects a greater interest by local authorities in the housing of old people, as well as the fact that a general needs subsidy of £10 a year is still available for one-bedroom houses.'

More Flats.—Some 36 per cent of all dwellings built by local authorities in 1958 were flats, compared with about 31 per cent in 1957. 'Figures of dwellings put into tender,' notes the report, 'show that this proportion is likely to increase. During the year nearly 43 per cent of dwellings put into tender by local authorities were flats, compared with 36 per cent in 1957.' Multi-storey flats (over four storeys) were 26 per cent of the total number of flats in 1958, compared with 23 per cent in 1957, and 11 per cent of all dwellings put into tender by local authorities, as against 8 per cent in 1957.

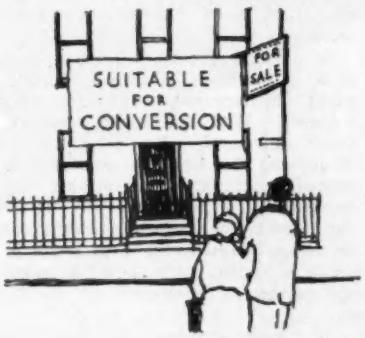
EVERYDAY THINGS

By Arthur W. Kenyon, CBE, FRIBA

LXXXII.—New Wine in Old Bottles

I NEVER fail to admire the skill of the workmen who carry out a good piece of alteration work. Now that conversions and alterations, assisted by Government grants, are so much the order of the day, many architects and builders must be realising how much they have to depend on the skill of each individual workman for the success of the job.

Architects may think lightly that by ingenious planning they can persuade an old building to perform quite a different function from that for which it was originally planned, whilst clients are impatient of any suggestion that they cannot have things just where they want them



in converting an old building. Perhaps neither of them realise sufficiently that a building has settled down to certain routines during its lifetime: the various parts have established a working relationship with each other, and in their middle and old age they are reluctant to have a new order imposed, and it therefore behoves us all to be mindful of their susceptibilities.

In the process of alteration, things come to light which call for major surgery, but if the building had been left alone to live out its life in its own way, they would have lain dormant to the end. You lift up the floor boards, and there exposed to view is a mass of tangled wires of which certainly no account is taken in the specification. If you are wise you will leave them where they are and put the floor boards back as quickly as possible. You remove an apparently sound lead flat only to find that over the years damp has eaten in, obliging you to make the awful decision of whether to take it all up.

So it goes on. We all know these situations only too well. I only mention them because of the care and skill which is required in dealing with them. The District Surveyor is a wise counsellor in these cases and is always ready to help.

But how important the foreman is on these jobs. He has daily, hourly, decisions to take, and he must have a watchful eye on every operation that goes on. He must protect where necessary against damage to existing work, covering up parts exposed to the weather: he has all the trades working at the same time, and as a rule all in each other's way. I can quite understand that the maximum number of tea breaks are required in this kind of work as a healer of strained tempers.

Each individual man is important. The carpenter has to fit new bits to old and there cannot always be drawings to help him: he must decide for himself on the spot. The bricklayer has to chop away and make good; the plasterer has to follow and patch and decide how far to renew and how far to repair; the plumber has to disentangle a maze of water pipes and make them work, while the electrician has the added responsibility of ensuring safety in all his work. We are all thankful for the painter who comes along to tidy up all the bits and pieces and gives them that final finish to look as though nothing had happened.

To the client I would say, for heaven's sake don't go near the job until it is finished. To the architect I would suggest twice as much contingency provision as he first thought of and then add a bit for luck (he will want it all!), and to the builder I would say, put the best foreman and workmen you have got on to the job. There is always the chance—slim but nevertheless real—that when the client sees the finished job he may even say 'What wonderful people!'

EJMA NEWS

Decision to Abandon Restrictive Practices

AT THE Council meeting of the English Joinery Manufacturers' Association held on April 21, it was decided that all recommendations of the Association, which had been registered under the Restrictive Trade Practices Act, 1956, should be abandoned. Other items of EJMA news are:

Kilning and Grading of Redwood.—A letter was sent to the Timber Trade Federation suggesting lines along which an approach could be made to the Swedish and Finnish shippers in an endeavour to obtain improvements in kilning and grading of Redwood for joinery.

Insulation Glazing Association.—The Association joined the Insulation Glazing Association at its inaugural meeting.

'PIECEMEAL PLANNING WILL NOT DO'

Housing Minister on Challenge of Urban Renewal

OPENING an exhibition to mark the 50th anniversary of the Department of Civic Design in the University of Liverpool on May 15, MR. HENRY BROOKE, Minister of Housing and Local Government, urged that there should be more concentration on the planning problems of redeveloping central urban areas to meet modern conditions.

'It is in this sphere of urban renewal—the changed and changing town,' said Mr. Brooke, 'that we have so much yet to learn, and to learn quickly and rightly—how to fit the motor car into our towns; how to meet all sorts of new needs which the people's rising standard of living demands; how to provide best for changing methods of distribution and of marketing; how to deal with all the hotly competing claims for land use; how to achieve modern progress and yet preserve what is old and good.'

'Piecemeal town planning will not do. I like the emphasis which this exhibition places on redevelopment based on a comprehensive plan—and a plan that will encourage development by as many different agencies as possible. With the coming of the tall building in mind, which matters not solely for itself but for its surroundings, I am sure the plan needs to be three-dimensional.

'To plan comprehensively we must have well-trained people; we cannot afford the second-rate. And there you have the secret why I gladly accepted your invitation to be with you in Liverpool today. The Liverpool School of Civic Design has ever been in the forefront; it has been furnishing the world with trained experts of high quality for a mere fifty years. Let us have many more from you.'

'Planning Must be Expansive'

PLANNING should be expansive rather than restrictive, said MR. BROOKE at a luncheon the same day given in celebration of the founding of the Department.

'If those who care about planning were to acquire the reputation of being principally concerned to say, "Whatever you are going to do, stop doing it," then Parliament and the public would hustle them out of existence: and good riddance too,' he said.

'I try to school myself to ask not "How can we stop this being done?" but "How can we get it done better?" There is no high merit in preventing ugliness, if the inspiration is not there to create beauty and excellence.

'I should regard it as wholly wrong if, in reaching planning decisions, I were simply to impose my own likes or dislikes on coming generations—for planners, like architects, determine the distant future. But there is a reverse side, too. If as Minister I were to sink myself wholly and become just an automaton, blindly accepting advice and contributing nothing myself I would hold myself equally blameworthy. I have to try and lay down for myself principles, and abide by them; and this is where it may truly be said that each Minister leaves some mark on planning progress for better or worse.

'Because I believe that undue restriction atrophies development, I would regard it as sinful of me to say "No" to new concepts and designs just because I thought them extraordinary.

'But there are places where the startling novelty is right, and places where it is wrong; and I cannot accept that anyone with a novel idea has unlimited right, because it is novel, to get it translated into actuality anywhere he likes, without regard to the consequences for what will be its older passive neighbours.'

ESSEX, CAMBRIDGE AND HERTFORDSHIRE SOCIETY

Annual General Meeting

IN his Presidential address given at the AGM of the Essex, Cambridge and Hertfordshire Society of Architects, MR. STANLEY BRAGG, FRIBA, AIHsg, said that the coming year will be a vital one for the RIBA and the allied societies. He expressed the hope that further sound development of the profession both at home and in the Commonwealth would ensue.

Mr. Bragg said, 'There can be no doubt that the need to "look at ourselves" has become necessary, but I hope that the final decisions will not be rushed, and that all members—whether members of allied societies or not—will have the opportunity to seriously consider the proposals put before them from time to time in order that a democratic method of representation and organisation be freely agreed upon. If all members of the RIBA automatically became members of the society, it will definitely be the greater responsibility of the society through its chapters to be really alive and conscious that it is now clearly representing the profession.'

Mr. Bragg said that it was the duty of the society to ensure that each member of the RIBA should feel part of an active architectural society and become an active member of the Institute. He continued, 'If we are going to survive as a profession and take our rightful place as the designer and leader of the building team, we must ensure that we are "united" as a body of professional people.

'It must be our duty to produce good work in the fields of design, construction, works managements and in building economy. With this really achieved our proper relationship with the general public, clients and the building industry will be assured. With this fast moving age of development it is clearly our duty and responsibility as architects—interpreted in the widest form—to be progressive in all our thoughts and not be afraid to tackle the vast number of problems which are emerging.

'By good example and fine leadership much can be achieved, and it clearly rests upon the individual to "pull his weight" in the very best sense, realising his work and life are an important part of our society and culture. I do sincerely hope that during the year we will be able to discuss together "ways and means" to attack by concerted action a few of the problems which are besetting the profession and the building industry to-day, especially bearing in mind the "Individual" architect and architectural assistants, whether they be in private practice or Local Government service in London or the Provinces.'

STANDARDS OF SCHOOL BUILDING

Minister Revises Regulations

MR. GEOFFREY LLOYD, Minister of Education, has revised the regulations governing the building of school premises to allow greater flexibility in minimum requirements, while at the same time maintaining adequate educational standards.

In a circular to local education authorities on May 26, Mr. Lloyd says that since the previous regulations were made in 1954, more varied forms of organisation are being developed in schools, particularly secondary schools, and the task of bringing old school buildings up to modern standards is assuming greater prominence.

Certain old regulations affecting teaching accommodation and accommodation for school meals have been improved or clarified, and a limited number of new regulations added. The new regulations came into force on May 26.

The changes made involve adjustments in the permitted cost of school building projects. These adjustments are explained in another circular issued on May 26 which says there is ample evidence that schools which satisfy the requirements of the regulations and which are of good quality construction and finish can still be built within the current limits of cost-per-place. Because of this, no change is made on the limits of cost-per-place, but the number of places allowed for costing purposes has been adjusted so that the total resources available are divided more equitably over schools of various types and sizes.

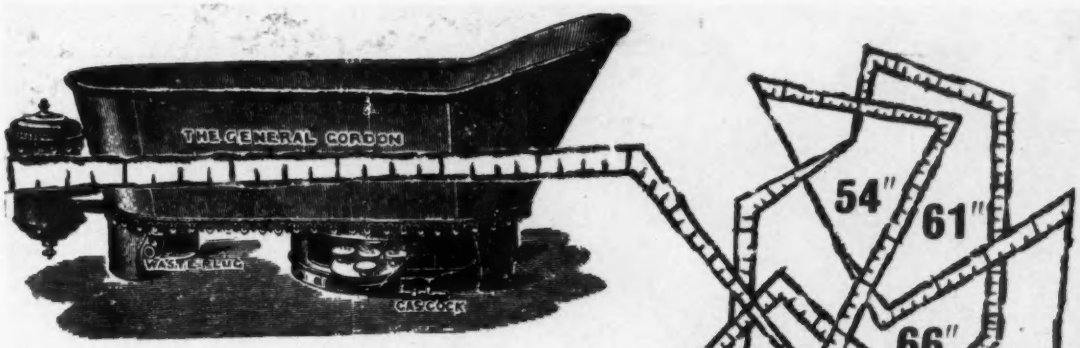
* S.I. 1959 No. 890: The Standards for School Premises Regulations, 1959. HMSO, price 9d.

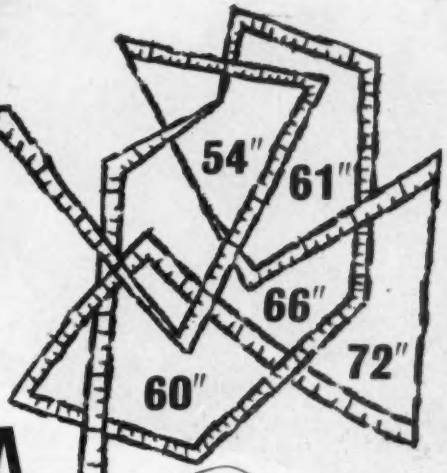
INDUSTRIAL RELATIONS

Lessons of the Operatives' Conference

MR. T. V. PROSSER, National president, speaking at the official luncheon on the occasion of the half-yearly general meeting of the Southern Counties Federation of Building Trades Employers, at Brighton, on May 26, said: 'Many of you will have read the reports of the recent operatives' conference on new techniques. Those who did must surely agree with me that their efforts to resolve the problems and to devise ways and means of dealing with them was a most statesmanlike step and one which should be commended by us all.

'It would not be right for me at this juncture to comment in detail on their discussions, but I think we should count ourselves lucky that in our industrial relations we are dealing with men of imagination and foresight. By tradition the industry is one where change is not always easy to achieve, but the changes since the post-war years are, I believe, as great as any that have been witnessed over the centuries. Those who introduce these changes may not always be aware of their ramifications and repercussions, and I hope that the operatives' conference will make manufacturers and architects alike more aware that they cannot design in a vacuum.'





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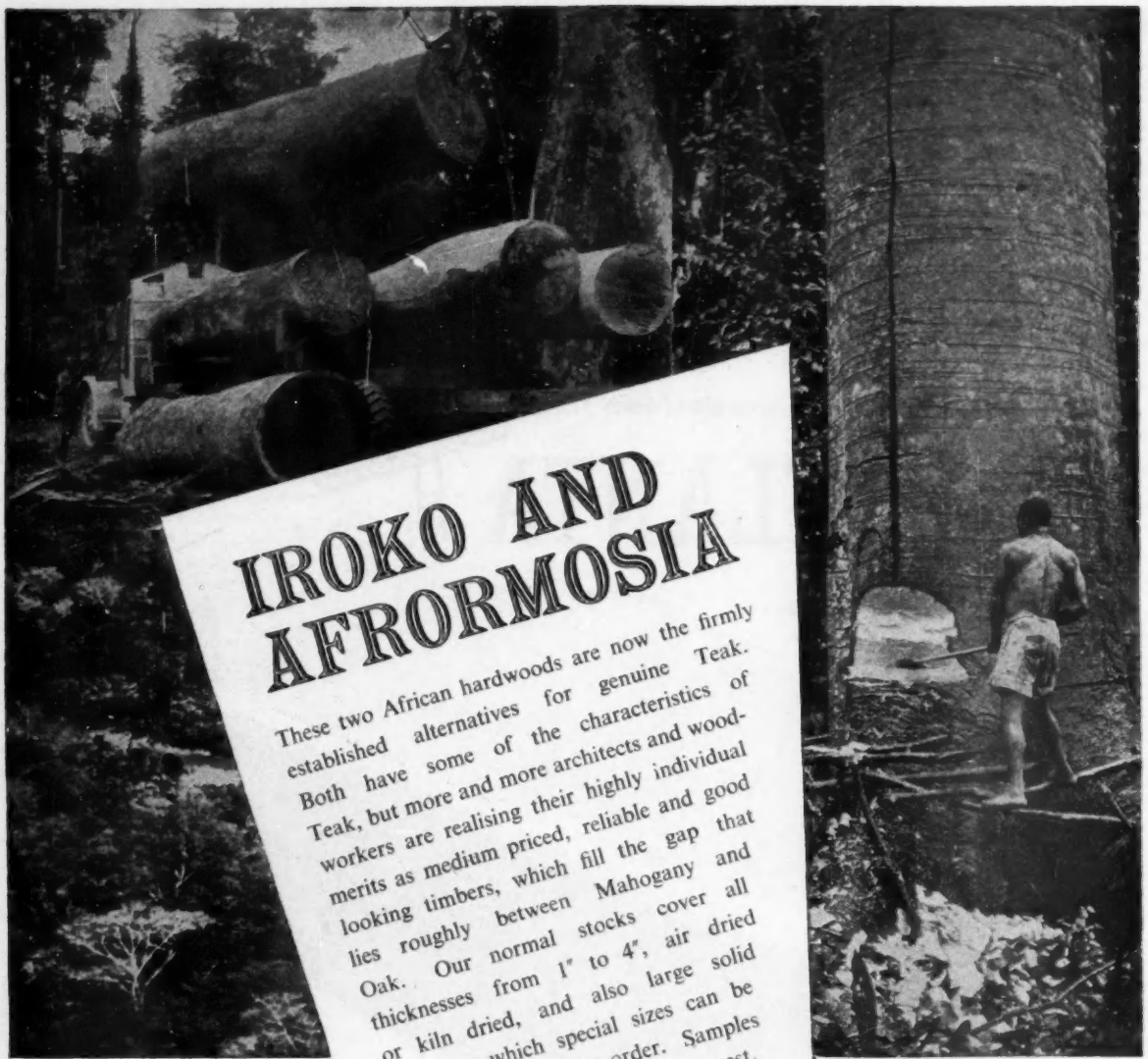

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FIRM PRICE TENDERING

Essex CC to Extend 'Successful Operations'

ACTING on a report from Mr. H. Conolly, CBE, FRIBA, County Architect, which refers to the 'successful operation' of the decision taken last July to require firm-price tenders for all properly documented schemes of a value up to £10,000, Essex County Council general purposes committee has recommended that for a further trial period of one year as from July 1 next, all contracts for building and civil engineering works of an estimated value not exceeding £75,000 which have been thoroughly planned in advance and have an estimated contract period not exceeding two years be entered into on a firm price basis. Provision is made for exceptions to this decision where a price fluctuation condition is considered to be desirable because of special circumstances.

Making their recommendations, the general purposes committee state: 'In October, 1957, the Council upon our recommendation accepted in principle the policy of contracts entered into by or on behalf of the Council for building and civil engineering works being on a fixed price basis; and decided that for a trial period of one year any such contract (other than a contract where a price fluctuation condition was considered desirable because of special circumstances) of an estimated value not exceeding £10,000 which had been thoroughly planned in advance and had an estimated contract period not exceeding two years should be entered into on such basis.

'In order that the scheme might be launched in as favourable conditions as possible the date for the introduction of firm price tendering was finally fixed as July 14, 1958.

'So far as concerns contracts for road and bridge works, it should be mentioned that the Ministry of Transport require that all contract works on trunk roads, the full cost of which is borne by the Minister, shall be undertaken on a firm price basis regardless of value although the method of inviting tenders for grant-aided highway works is left to the discretion of the highway authority.

Extension to £75,000 Contracts

'We have considered a report from the County Architect on the successful operation of the scheme since last July and his recommendation that in the light of the experience gained, firm price tendering should be continued and extended to include contracts of a value up to £75,000. In his report the County Architect has reminded us of the conditions which still apply, the observance of which was originally emphasised by the National Federation of Building Trades Employers, in the operation of any scheme of firm price tendering if the full benefits are to be obtained. These include complete documentation at the tendering stage, the right of the contractor to confirm or adjust any tender if not accepted within two months, and strict adherence to the terms of the contract particularly such matters as the early provision of further drawings and details, the nomination of sub-contractors and suppliers, the issue of architects' instructions involving variations, preparation of accounts, especially the final account, and the issue and payment of certificates. The Federation also consider that the estimated two year period of any contract should be reckoned from the date of delivery of tenders.

'We understand that there would be no objection to the extension of the system as proposed so far as concerns contracts for road and bridge works.'

BASIC MATERIALS

Building Price Index Unchanged

THE April wholesale price index issued by the Board of Trade for all building and civil engineering materials at 144.8* is the same as that for the previous month. The house-building materials index for April at 143.1* is again the same as that for March (1954 = 100).

Commodity	April, 1958	March, 1959	April, 1959
Coal	141·6	141·1*	141·5*
Slates	130·0	136·1	136·1
Refractory goods, including bricks	124·1	127·5	127·5
Non-refractory goods, including bricks	110·5	110·1*	110·1*
Building bricks, common, other than fletton, ex-works	111·9	112·2*	112·2*
Building bricks, fletton common, delivered ...	105·2	105·2	105·2*
Glass (other than containers)	120·0	121·1	121·0*
Cement, delivered	115·3	115·3	115·3
Cast stone and cast concrete products	103·3	102·8	102·8*
Synthetic resins and plastic materials	94·7	90·7	90·3*
Paint for building and decorating	108·9	108·7	108·7
Steel sheets	127·5	127·9	127·9
Aluminium and aluminium alloy products (extruded and drawn)...	122·9	124·4	124·4
Galvanised cisterns, tanks and cylinders	112·4	112·4	112·4
Home-grown hardwood ...	108·2	96·0	96·0*
Wallpaper	119·8	119·8	119·8
Aluminium, virgin ingot, delivered	116·1	115·4	115·4
Copper, ex-ship, wharf or warehouse	70·6	99·9	96·5
Lead, ex-ship, wharf or warehouse	75·6	72·1	72·0
Zinc, ex-ship, wharf or warehouse	79·7	96·0	92·9
Imported hardwood, ex-yard or wharf	104·9	102·8	102·9
Imported plywood (delivered to consumers) ...	99·4	93·3	93·2
Imported softwood (delivered to consumers) ...	104·2	94·5	94·4

* Provisional.

MIDLAND EMPLOYERS

Local Authorities Inviting Tenders Without Quantities

THE Midland Federation of Building Trades Employers has drawn the attention of members to the fact that invitations to tender have been sent out in connection with certain contracts costing more than £4,000, on the basis of plans and specification only. Among such contracts offered for tender is one for the erection of 244 traditional dwellings on the Pye Green Housing Estate for the Cannock Urban District Council. The Federation states that requests to the council's architect to co-operate in furnishing bills of quantities have not met with success.

Members are urged by the Federation to adhere to the Federation rule concerning the provision of bills of quantities, in the belief that the Cannock Urban Council and the other authorities similarly offering without bills, may reconsider their decision not to issue quantities. The Federation rule, it will be recalled, reads as follows:

'Members shall not tender in competition for contracts exceeding £4,000 in total value without bills of quantities being supplied. In the case of contracts for the repetitive construction of small dwelling houses the bills of quantities shall be prepared in accordance with the principles of the code for the measurement of building work in small dwelling houses. This instruction shall not apply to contracts for repairs or contracts for painting or decorating only. That bills of quantities furnished for housing contract should in all cases form part of the contract.'

Brick Shortage Reported

THE Midland Federation of Building Trades Employers has received reports from members in the region of a general brick shortage. The shortage is particularly marked where commons are concerned. The Federation is taking steps to acquaint members of sources of supply especially for pressed common brick.

TWO NEW COMPANIES FORMED

Laing Group Enterprises

THE formation of a new company, to be known as Ground Engineering Ltd., is announced by John Laing and Son Ltd.

The new company will occupy modern research buildings at Manor Way, Boreham Wood, Hertfordshire, and will be concerned primarily with research and investigation into ground conditions as a preliminary to all classes of development. It will gather into a single unit diversified specialist resources of the Laing group of companies—especially their present soil mechanics' services—and will provide a comprehensive research service supported by the experience of the parent company.

McKinney Foundations Limited

The formation of a new associate company, to be known as McKinney Foundations Limited, is also announced by John Laing and Son Ltd. The new company has been established in association with an experienced American organisation for the design and construction of bored pile and caisson foundations for multi-storey buildings, docks and harbours, and other heavy civil engineering works. This method of foundation construction is widely used in the United States and a service of advice in plant, equipment, and other 'know-how' will be available to the company from this source.

An Annual Report

The 115th annual report and accounts of the Royal Metal Trades' Pension and Benevolent Society, Bouverie-hse., 154-158 Fleet-street, EC4, for the year ended December 31, has been issued. Also included is a list of subscribers and donors.

INQUIRY BUREAU

Sealing Lead Windows

Q.—I have some lead light windows and the rain percolates round the edge of some of the panes. Could you please advise me what I could use to stop this?

H. W.

A.—This trouble is caused by the seal between the glass and leads becoming broken thus allowing water to seep through. The remedy is to insert a thin putty knife between the glass and lead near the corner, and with a stroking action draw knife along and at the same time opening the gap to a further ¼ in., then clean out the old material which is probably hard and clean out thoroughly. When this is done, get some good linseed oil putty, mix with a little black to colour it to the colour of lead. Fill in gap which has been cleaned out, push putty well in. Then by a stroking action with the handle of the knife, push the lead back into position. Do not push hard in one spot but with an even pressure all along the lead. Trim off surplus putty afterwards. Should, however, the job be a big one, then call in a glazing contractor.

G.H.A.

Heavy Duty Factory Floor

Q.—We shall be pleased to receive your recommendations for covering a factory floor suitable for heavy duty up to 8 in. thick. Any information you can give regarding granite topping and concrete hardness would also be appreciated.

A.M.S.

A.—The thickness of concrete for a heavy duty factory floor would vary between 6 in. and 8 in. according to the weight of machinery and equipment with which it is likely to be loaded. It is assumed that this floor will be at ground level and it is most important that the ground and sub-base be properly prepared to receive the floor slab, otherwise the best concrete floor slab can fail if the foundation is weak.

The mix for the concrete will depend on the type of local aggregate used, whether a crushed rock or natural gravel. The maximum size for the coarse aggregate should be 1½ in. and the mix proportions by weight 1:2:4 cement, sand and natural gravel. If crushed rock is used then a little extra cement is recommended. If power vibration is used with less water in the mix the cement content can be reduced a little.

The concrete should be laid in alternate bays, draughtboard fashion, so that shrinkage cracks can be predetermined where the bays meet. The concrete must be well compacted and not allowed to dry out for at least three days by keeping it wet or covered with damp covering materials. The reinforcement should be steel mesh weighing from 7 to 10 lbs. a square yard according to thickness of slab and it should be placed about 2 in. from the top. The granolithic topping would be best laid as soon as the base concrete had stiffened, then by using a stiff broom to brush the surface and remove the laitance, the topping could be laid and a successful key obtained. This is the best method providing no damage is likely to occur from subsequent operations; it also has the advantage of reducing the thickness of topping to approximately ¾ in. Where the topping is to be put on after the concrete base has hardened, the base must be thoroughly roughened by hacking all over to provide a key. Then the surface is thoroughly cleaned and wetted. This should be followed by grouting with a sand and cement slurry and the topping quickly applied.

The mix proportions for granolithic topping are 1:1:2 cement, fine and coarse granite chippings, or 1:2½ all in aggregate. The aggregate grading must be to BSS 1201 maximum size ⅜ in. and not flaky. The topping should have a thickness of 1½ in. and can be applied in one or two thicknesses. If in two thicknesses then the lower one can be of dry consistency and well rolled or pummelled into the ground. The second thickness can be a little wetter and must be applied within 45 minutes of the first, be well compacted, ruled and trowelled off to level. The second trowelling is given when the screed is stiff enough to prevent laitance rising and should be completed on the same day. A power float can be used to advantage on a large floor.

As shrinkage plays a big part in the success of these floors, the water content of the mix should be kept to the minimum and the bays cast should not exceed 150 sq. ft. in area. The joints must be placed in the same position as those of the base concrete and a slight chamfered edge where each bay is joined is recommended.

Care of granolithic work is as important as all the other operations. It must be kept wet and free from traffic for at least seven days. Wet sand is most effective. Hardeners as additives can be used, but the makers' instructions must be rigidly adhered to. Carborundum grit trowelled into the surface is useful to prevent slipping, but does not improve wear resistance.

Metallic aggregates incorporated in the mix are claimed to increase wear resistance although spalling from rust will cause trouble. Density and hardness are the ruling factors.

Granolithic floor laying requires a specialist craftsman; it is not a plasterer's job.

R.M.E.

Openings in Gable Walls

Q.—Under the Model By-laws, 1953, 39(i) re proximity to boundary of gable walls—does, if the gable is, say, 7 ft. 6 in. from the boundary, this by-law prohibit an opening, be it window or door, in that gable? Do most local authorities interpret this as not allowing a gable, to within 10 ft., to have either door or windows in it? To me it seems unlikely, as if this is so millions of semi-detached houses must violate this law.

E.O.R.

A.—A Legal Correspondent writes: By-law 39 deals with 'domestic' or 'public' buildings of one storey, but small houses (as defined in by-law 33) are specifically excluded. The by-law deals therefore with a wide range of single storey buildings such as shops, offices, churches, hospitals, public institutions, colleges and schools. For the full list see by-law I.

The by-law lays down requirements as to the degree of fire resistance of any external wall within close proximity of the boundary of the premises. The prescribed degree of fire resistance varies with the distance from the boundary of the wall in question and the cubic capacity of the building. Thus, if the building has a capacity of less than 36,000 cu. ft. and the wall is within 5 to 10 ft. of the boundary, that wall must be 'externally non-combustible'; that is, it must either—

(a) be composed throughout of non-combustible material, except for any internal lining; or

(b) have non-combustible external panels or coverings.

'Non-combustible material' means materials which satisfy the tests laid down in BSS 476:1953 (see by-laws 1, 31).

Any wall which complies with the requirements as to stability laid down in the Third Schedule will be deemed to satisfy the provisions of by-law 39 as to fire resistance (see by-law 32). This does not mean, however, that the wall must comply with the Third Schedule. The architect is free to adopt any other form of construction provided it complies with the basic legal requirements summarised above. I should have thought that these legal requirements did not necessarily exclude doors, but that is a matter of technical judgment in the light of BSS 476:1953.

A.E.T.

Cracking Glass in Window Frames

Q.—My house, built in 1933, has metal windows set in wooden frames. Since about 1950 the glass has cracked repeatedly in every window in the house.

The bathroom window has thick hammered glass and this too has cracked. I have kept the frames well painted both inside and out and they were treated with a special metallic paint.

All the lights in the bay window of the sitting-room were replaced prior to the room being decorated; a week later the glass in two large panes cracked again.

Can anything be done to stop this? I am afraid to leave the house as on occasions the crack has developed into a split.

Would it be possible to have the metal parts of the frames cut away and the glass fitted direct into the wood?

J.L.P.

A.—This trouble is usually the result of the glass being too tight. Metal sashes are prone to expansion and contraction, therefore when glass is measured for glazing sufficient allowance must be made to allow for this.

When glazing, glass should be stood on soft wooden blocks, one at each end, an ⅛ in. gap all round between glass and metal. This allows for the expansion and contraction, and any other movement that may occur. I suggest that the sashes be inspected to see whether allowance has been made. If it has not, then the remedy is to take the glass out, reduce the size, and reglaze as stated. Another cause of cracking could be the result of the glazing clips that are used to keep the glass in position being too stiff, but it is most unlikely.

Should you wish to remove the metal sashes from the wooden framework, then all you need to do is to unscrew them and they can be easily removed. It must be realised, however, that you must fit sashes that will open and not glaze direct on the framework.

G.H.A.

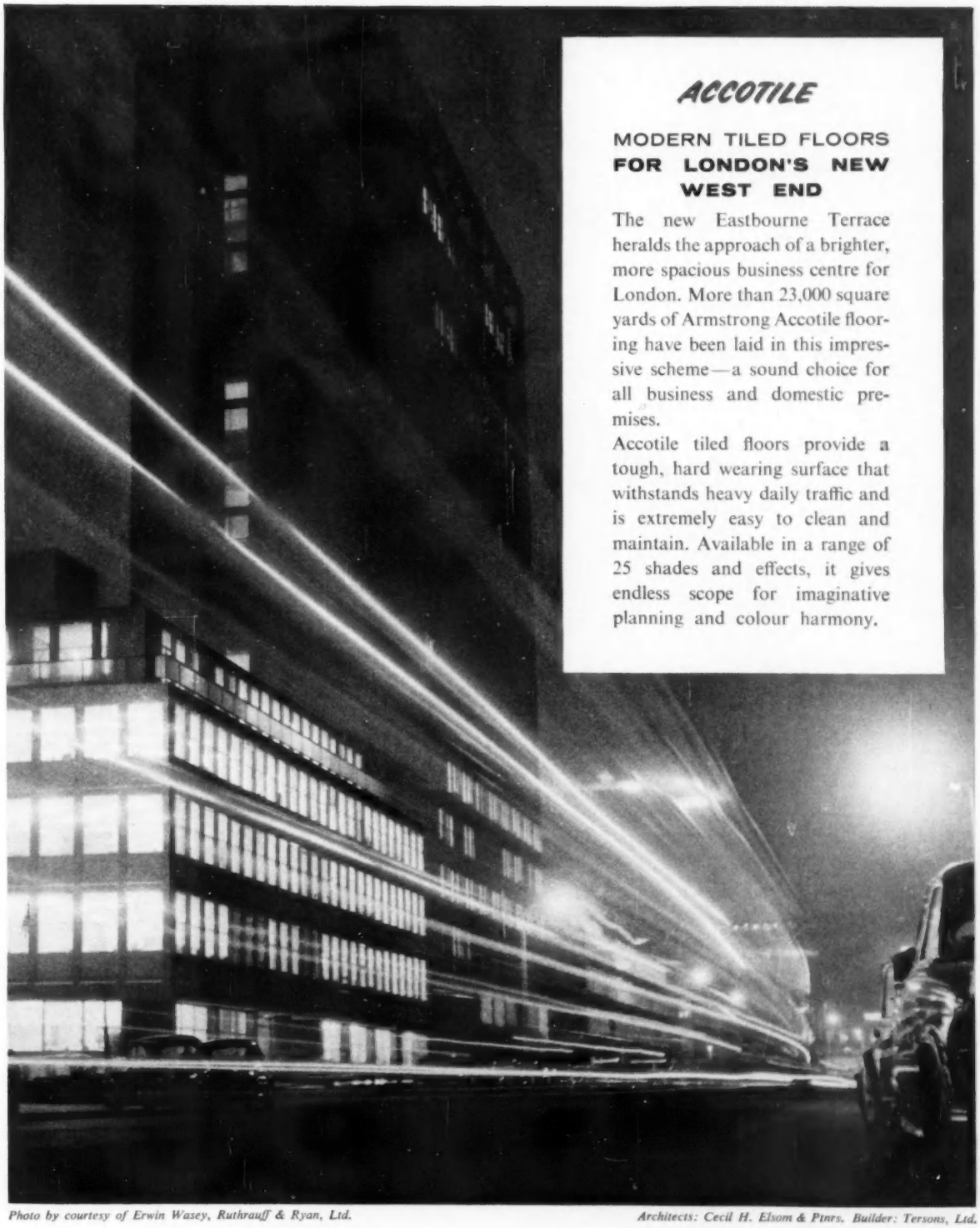

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Photo by courtesy of Erwin Wasey, Ruthrauff & Ryan, Ltd.

Architects: Cecil H. Elsom & Ptnrs. Builder: Tersons, Ltd.

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Bowater House, Knightsbridge, S.W.1. No 90 Lilac 2" Bricks used for facing the tower block.

Architects: Guy Morgan & Partners. Photo by courtesy of The Bowater Organisation.

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TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 59 of this issue. The form can be used for more than one inquiry.

FLOOR FINISHES

PLASTIC EMULSION FOR FLOORS: Quickly spread with a damp mop or applicator over large areas, this emulsion dries bright and gives a waterproof, anti-slip surface to any type of floor. May be used for rubber flooring and any type of tiling. New wood, concrete, linoleum, granolithic and concrete compound floors should be first sealed to prevent undue absorption of the emulsion. In 24 hours it becomes completely waterproof; several coats are recommended for a first application to all floors. The coverage per gallon on bitumastic and asphalt floors is 4,000 square feet. On thermoplastic tiles, pvc, rubber and all materials which have been sealed, it gives a coverage and lasting gloss on 5,000-7,000 square feet.

Ronuk, Ltd.,
Portslade, Sussex.

HEATING

'VECTAIR 45' WALL MOUNTED CONVECTOR: Suitable in large systems (where economy is a factor) and domestic heating. Can be applied to steam and hot water systems and also accelerated small bore systems in domestic installations. A 45 degree sloping top cabinet without the back panel is fixed to the wall by a support bracket and screws. The cabinet can be lifted away for access to the element. Wall marking is minimised by a sealing strip fitted to the perimeter of the back of the cabinet. The unit is 5 11/16 in. deep, available in three heights of 18, 24 and 30 inches and nine lengths rising from 18 to 50 inches by increments of 4 inches.

F. H. Biddle Ltd.,
16 Upper Grosvenor-street, W1.

THE 'ECONOMATIC' GAS-FIRED BOILER: Heat output 33,000 BTUs/hr. will provide ample domestic hot water and heat up to 140 sq. ft. of radiators. An electrically operated time clock turns off the central heating at a preselected hour at night and on again in the morning when required. Temperature control adjustment on the front case. Selector switches turn off central heating, if required, whilst still heating domestic hot water or give continuous operation in very cold weather. Pilot lights are incorporated in the control panel and control equipment includes governor, flame failure device, gas cocks, etc., all within the boiler case. Also available with a low head pump so that it can replace boilers in existing installations. Small bore central heating installations are simplified as the radiators are connected up with ½ in. copper piping and no major components have to be fitted or bought except the boiler itself. (Illustration.)

International Boilers & Radiators,
Bucklersbury House, 83 Cannon-street, EC4.

PLUMBING

THE 'LEONARD 621' MIXING VALVE: A very small thermostatic mixing valve—intended for shower heads which require less water such as spray bib taps operating on such low flows as 1 to 1½ g.p.m. The external design of the new valve includes a calibrated scale-plate for quick temperature selection. This valve is particularly suitable for use in shower cabinets, cubicles, and ships' cabins where little space is available and water and fuel conservation vital. Internal design is robust and the thermostat assembly is self-contained and fits into the valve body as a cartridge. The valve can be dismantled with a single screwdriver. The thermostat and valve mechanism unit can be removed and replaced in a few minutes. The thermostat receives and reacts to changes in the mixed water temperature almost instantaneously. Under normal conditions the mixed water temperature is maintained within 2°F. (Illustration.)

Walker, Crosweller & Co., Ltd.,
Cheltenham, Gloucestershire.

SAFETY EQUIPMENT

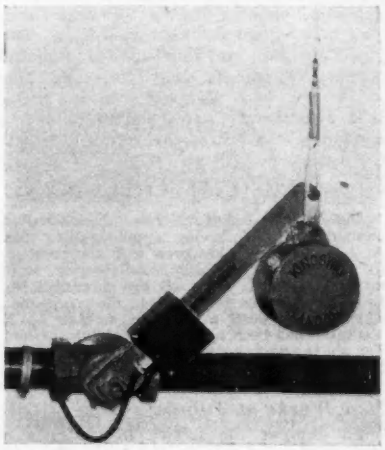
THE 'KINGSWAY' FREEFALL FIRE VALVE SWITCH: Works with a weight-operated valve held open by a steel cable running over pulleys across the front of a boiler. In this cable is a small fusible link sited over the oil-burner. Should excessive heat develop in the oil burner, the fusible link melts, releasing the tension on the steel cable, which in turn allows the fire valve to shut, preventing all further oil from reaching the boiler house. It operates in conjunction with the fire valve to set off an alarm in the form of a bell or hooter, or to stop electric motors supplying fuel to the burners. If required it will perform both functions simultaneously. (Illustration.)

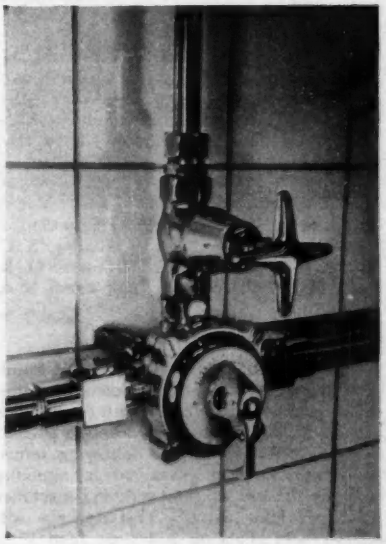
R. F. Lardon & Partners Ltd.,
Pond-road, Payle Trading Estate, Colnbrook, Bucks.

UNCLASSIFIED

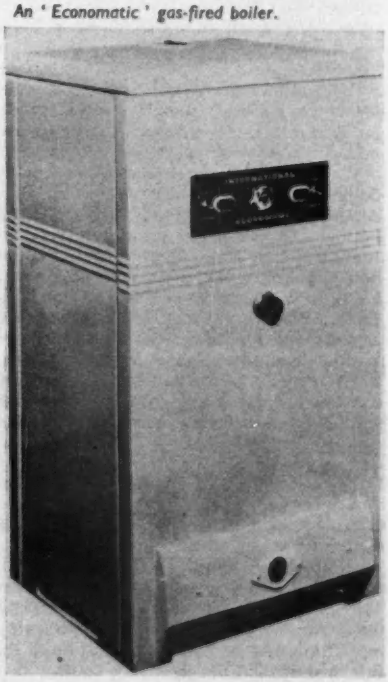
BITUMEN IN PAPER BAGS: Multi-wall paper bags are now in use as an alternative method of delivering bitumen. The service caters for those who do not have the necessary facilities for receiving hot bitumen in bulk or who prefer to receive solid bitumen, either in packages or in blocks. The bags are made up of four layers of paper, the inside layer treated to prevent adhesion to the bitumen, the outside layer water resistant. The bags are filled with liquid bitumen while supported in formers from which they are removed when the bitumen has solidified. The customer receives the product in cwt. bags which are easily and cleanly removed from the bitumen.

Shell International Petroleum Co., Ltd.,
Stanlow Refinery, Ellesmere Port, Cheshire.

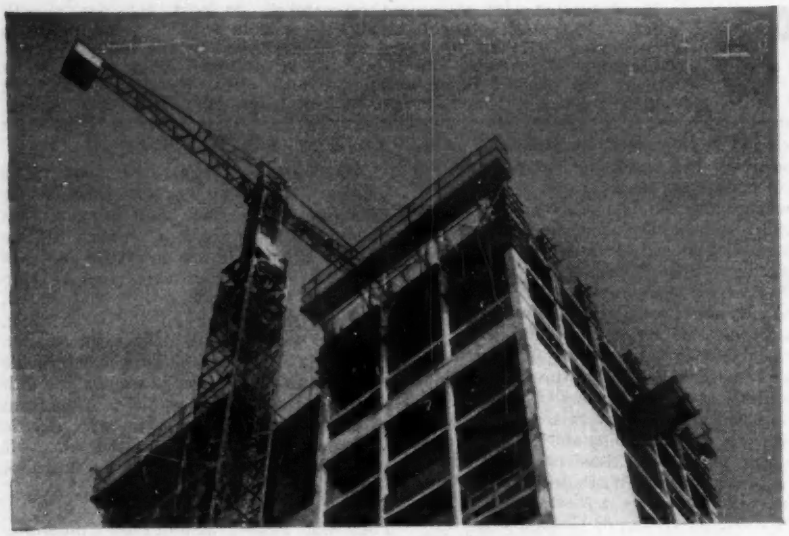




An 'Economatic' gas-fired boiler.



above: The 'Kingsway' free fall fire valve
right: The 'Leonard 621' thermostatic mixing valve.



SCAFFOLDING FOR MULTI-STOREY BUILDING.—A new type of suspended scaffolding said to cut the cost of scaffolding equipment by three-quarters, has been adopted by Wates, Ltd. on their 18-storey London County Council contract at Brandon Estate, Southwark. The scaffolding covers three storeys simultaneously. It gives a single storey working platform and two storeys of safety and is fixed by a special bracket over the edge beams. To ensure manoeuvrability, each unit is only 10 feet long and is encased by a wire mesh hanging safety rail. As the building goes up the scaffolding is lifted bodily to the next floor by a tower crane.

NEWS IN BRIEF

The Careers Exhibition

THE NFBTE stand at the National Education and Careers Exhibition, which is being held at Olympia under the auspices of the NUT from May 26 to June 5, is claimed to be the largest in the careers section. The major part of the stand is devoted to nine back-projection film screens on which will be shown continuously five-minute loops of colour film illustrating virtually all aspects of building activity and operations on building sites. The NFBTE's new edition of 'Building as a Career' and illustrated pamphlets on the building crafts and building managements, together with similar publications of the Institute of Builders, will be among the principal documents displayed on a bookstall which is incorporated in the design of the stand. The stand has been designed by Kenneth Lindy, Joseph Hill & Partners (F/ARIBA); the contractors are John Edington & Co. Ltd. The films have been supplied by Richard Costain Ltd.; John Laing & Son Ltd.; Stramit Boards Ltd., and Taylor Woodrow Construction Ltd. Civil engineering as a career is also featured on a stand (No. 12) which is jointly sponsored by the Federation of Civil Engineering Contractors, the Institution of Civil Engineers and the Association of Consulting Engineers.

Timber Preservation

A short course on 'Timber Preservation' is to be held at the Wolverhampton & Staffordshire College of Technology, Wulfruna-street, Wolverhampton, on Friday, June 12, 2.15-8.30 p.m., and Saturday, June 13, 9.30-4.0 p.m. The course fee is £1 1s. 0d. (inclusive). Further particulars with enrolment form may be had on application to the Principal of the College.

'The Commonwealth in Brief'

A book, prepared by the reference division of the Central Office of Information, London, giving a brief description of the Commonwealth Association, the UK and UK dependencies has been issued, under the title 'The Commonwealth in Brief.' Copies from HMSO, price 3s. 6d.

LDA Booklet

A booklet prepared primarily for distribution to junior building students, and to provide them with an introduction to the use of lead sheet and pipe in building has been issued by the Lead Development Association, under the title 'Lead Sheet and Pipe —General Information on Manufacture and Use.' Copies from LDA at 18 Adam-street, WC2.

National Shopfitters Officers

The following officers of the National Association of Shopfitters, 2 Caxton-street, SW1, were elected at the annual meeting of the Association, held on May 6. They are: President, A. P. Gupwell; Vice-President, C. H. Drake; Past-President, Ewart Edmonds; NDEA President, J. D. Vernon; MRAS President, A. H. Plumb; NRAS President, J. Killingbeck. Council: A. E. Hadley, S. C. Hawes, M. Heggie; B. M. Hickman; C. R. Lyon; H. E. Pollard; A. S. Templeman; S. A. Thompson.

Payment for Paint Spraying

The National Joint Council for the Building Industry has adopted a recommendation of its general purposes committee and has decided to make a national variation amendment to NWR.3A in the following terms. '(r) Painters when employed in applying paint by the use of paint-spraying machines —2d. per hour extra.' This decision will operate with effect on and from June 1.

PAINTING CONTRACTORS

Federation's Annual General Meeting

IN his Presidential address to the annual general meeting of the Federation of Painting Contractors, held at the Dorchester Hotel, W1, on May 25, MR. G. CHRIS. JONES thanked those present for the honour bestowed upon him. He said that he was 'following in the train of many great names and must endeavour to keep the standard as high as possible.'

Mr. Jones said that whilst one heard from time to time of price fixing rings and monopolies, he was personally very proud to be a member of an industry which was not in any way concerned with this practice. 'The system of tendering,' he said, 'adopted by Government departments, public bodies and industrial concerns, is in the main, such that it makes our trade one of the most highly competitive of all.'

He continued: 'At certain times during the past few years we have all been very concerned about the future of our industry. Owing to the Suez crisis and credit restrictions a large number of clients became only prospective ones. I am sure we will all agree, however, that the outlook is much brighter for all concerned in the industry.'

Mr. Jones expressed deep concern over the one or two paint suppliers who had opened up painting companies of their own and who were thus unfairly trading in competition with many members. He said that apart from this complaint, which could be dealt with by the Manufacturers' Federation, he appreciated the 'great service and unfailing courtesy' given by the greater majority of suppliers.

Referring to accidents in the industry Mr. Jones said that his own company, engaged on the painting of power stations, had received a letter commenting on the appalling loss of workpeople. He said that although in nine years 211 men had been killed, there was a definite downward trend which he hoped would continue.

During the discussion following the presidential address anxiety was raised concerning the policy of certain public bodies to appoint manufacturers as the main contractors. These manufacturers in their turn appointed painting firms as sub-contractors. The serious implications raised by this, especially the questions of the financial stability of painting contractors and joint guarantees, were discussed. It was stated that negotiations were continuing and a committee had been appointed to deal with the matter.

PERSONAL COLUMN

The Express Lift Co., Ltd., Northampton, announces the following appointments: MR. A. J. BROWN, who has been with the company for 32 years, has been appointed company secretary. MR. W. H. THATCHER has succeeded Mr. Brown and taken charge of the company's accounts and costs department. MR. L. B. VAUGHAN has been appointed company cashier. The above appointments follow the death of MR. S. RICHARD SMITH, secretary of the company.

New Works at Tilbury

To improve the service to contracts in the region east of London, Concrete (Southern) Ltd., have opened a new works at Chadwell St. Mary, near Tilbury. Administration will continue to be from Hounslow.

Architects: Harrison & Cox, F./A.R.I.B.A. *Contractors:* Hinkins & Frewin, Oxford

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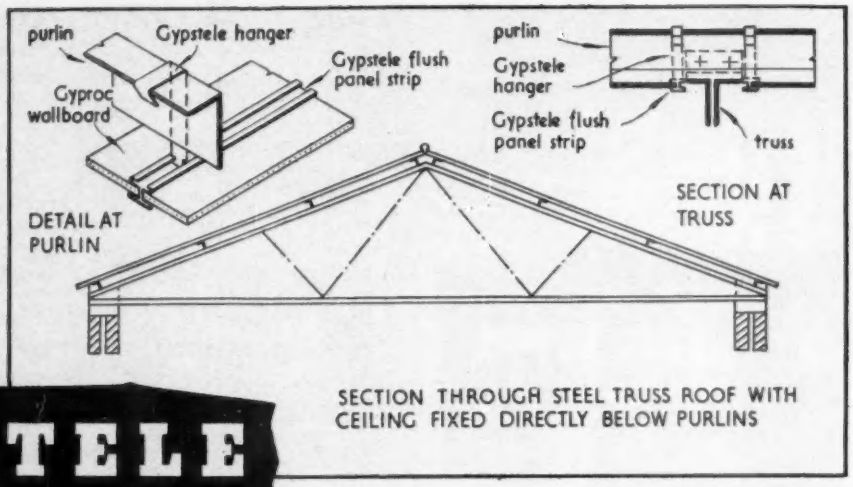

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OVERSEAS BUILDING

From Our Own Correspondents

CANADA.—Messrs. Thompson, Berwick and Pratt, Vancouver architects, have planned a mall-styled shopping centre for Port Moody, B.C. Approximate construction costs will be $825,000. A series of similar projects have been planned by this firm for throughout the province. . . . The Mayor of Toronto is to announce shortly details of a $25m. commercial construction development in the heart of the City. English capital is involved in the project. . . . The Nova Scotia Pulp, Ltd., is considering the construction of a $40m. mill near Halifax. . . . A $15m. Palais des Arts is under consideration for downtown Montreal. The project calls for a combined concert hall and opera house to seat 3,000 persons; a 1,500-seat theatre, and a 500-seat chamber music auditorium. Also in the plans are shops, a restaurant, exhibition space and underground parking space. . . . A $16m. development has been announced by Woodwards Stores, Ltd., for a 67-acre site adjacent to its Park Royal shopping centre in West Vancouver. . . . The Manitoba Government is to spend $5.5m. constructing 17 bridges and overpasses in metropolitan Winnipeg.

CANADA.—Plans for another $100m. combined industrial/residential development in Toronto have been approved in principle. A self-contained community for a population of 14,000 is proposed for a 203-acre site. The project, to be undertaken by Toronto Industrial Leaseholds Ltd., is expected to begin in four months. . . . The Canadian Government is considering the expenditure of $66m., over a six-year period, for paving the 1,221-mile Canadian section of the 1,523-mile highway from Dawson Creek, B.C. to Fairbanks, Alaska. . . . Whatcom County Commissioners, in British Columbia, have proposed an $18m. island highway linking the main San Juan Islands with Washington State mainland and Vancouver Island by a series of bridges and ferries. If the plan is approved the first stages of the highway will be completed by 1962. . . . Plans have been announced in Newfoundland for a multi-million dollar construction project which is under consideration. The Iron Ore Company of Canada and the Wabush Iron Ore Co. Ltd., will build separate plants and for each plant a town will be built to accommodate approximately 4,000 people each. The cost of the two projects would be more than $400m. . . . Chilliwack, B.C., is to have a $2m. shopping centre. The architect is Dirasser-James. . . . The Steel Co. of Canada and Page-Hersey Tubes Ltd., will construct a $10m. mill at Edmonton, Ala.

GHANA.—A second development plan to cover the five years from July 1, 1959, to June 30, 1964, was approved by the National Assembly in early March. It is an ambitious plan totalling some £343m. (excluding £7m. for contingencies) and covers every aspect of development. Of this total £100m. is set aside for the construction of hydro-electric works. Of the remainder, £126m. is for projects for immediate implementation, and a further £102m. covers projects to be tackled as time and money permit.

GHANA.—The Ghana Government has signed a contract with Kaiser Engineers and Contractors Inc. of USA for carrying out certain preliminary works for development of a Volta River hydro-electric project Reporting this from Ghana, Barclays Bank D.C.O. states that the scope of the works to be carried out at the dam site at Kosombo will cover: foundation exploration; determination of basic design of dam and power plant; construction of access roads and some housing at the dam site; and construction mobilisation planning. It is understood the report submitted by Kaisers basically recommends that the main dam site originally planned at Ajena, should be moved about a mile south to Kosombo and that a generating plant with a capacity of 768,000 kilowatts should be installed.

NEW ZEALAND.—Construction is expected to begin at an early date on New Zealand's first oil refinery and a survey is to be undertaken immediately to decide upon a suitable site for it. To be built by Shell at an estimated cost of approximately £17 million, the new plant will have an annual capacity of 2 million tons. Consultants have yet to be appointed.

Building Centre, Nairobi

KENYA.—The United Kingdom Trade Commissioner in East Africa has been advised that the Ministry of Works, Kenya, are in process of creating a Building Centre to serve the Colony and would like United Kingdom manufacturers of all forms of building materials to forward trade catalogues, literature and price lists, together with samples of their products for display purposes. This material should be sent to the Secretary for Works, Technical Library (Buildings), (for the attention of Mr. F. L. McLean), Ministry of Works, Private Bag, Nairobi, Kenya. (Ref. ESB/12398/59. Tel. Chancery 4411; ext. 776 or 866.)

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AN ARCTIC DOMED TOWN

A 'BUBBLE' town, for the Arctic centre of Frobisher Bay, is one of many plans, suggested by consulting architects and engineers, now under consideration by the Canadian Government. This unique construction project, should it become a reality, might well revolutionise living conditions in the frozen north of the future.

Frobisher Bay, in the North West Territories, is the Canadian Government centre of the eastern Arctic. The present settlement, which is steadily growing, consists, chiefly, of a large airport, with a runway 9,000 ft. long and 200 ft. wide, used extensively by international aircraft travelling the polar routes; administrative offices of the Federal Government; a Hudson's Bay trading post; an Eskimo Rehabilitation Centre, and ancillary services. The present population, which fluctuates with the seasons, often exceeds 1,000.

Consultants have now been engaged to design a new town which will house 1,500 people, or more, in the early stages. It must feature concentrated living, with all goods and services situated near blocks of flats. An integrated system of heating, sewage and water pipes is to supply the whole town.

Initial proposals have suggested that the town site should consist of a series of linked blocks of flats which would stand on the periphery of a domed shopping centre. The dome, which could have a span of 700 ft. would be constructed of a thin shell of concrete vaulting with ribs radiating from a central pier. This would cover everything needed for a normal town of 1,500 people, hospital facilities, schools, administrative offices, churches, recreational facilities, shops and hotel accommodation.

Tentative plans show a ring of 36 12-storey towers containing flats, which would surround the domed town centre. Easy access, from one to the other, would be by lifts and subways. The temperature, inside the dome, would be about 20 degrees. The outside temperature would possibly be 40 degrees below zero.

It is considered feasible that the system of towers now visualised could be extended repeatedly, when necessary, to accommodate increased population requirements. Lighting, inside the dome, would be of a subdued type. Glass would be avoided, owing to the long winter darkness and winter heat loss. Transportation, on inside roads, would possibly be by battery-operated trolleys.

In order to provide the best possible conditions for a community life in the Northern town site, it is expected that a town planning architect will be added later to the present team of consultants. Also, as the studies progress, it may be necessary to obtain the services of specialists in related fields.

The Frobisher Bay project is under the control of the Canadian Ministry of Northern Affairs and the Ministry of Public Works. The consulting architects and engineers already appointed are: Peter Dickinson and Associates, Architects, Toronto; Rounthwaite and Fairfield, Architects, Toronto; W. Sefton and Associates Ltd., Structural Engineers, Toronto; Brais, Frigon and Hanley, Mechanical and Electrical Engineers, Montreal, and C. E. Gravel, Civil Engineer, Montreal.

The SCOTTISH BUILDER

New £800,000 Town House

ABERDEEN TOWN COUNCIL has been authorised to undertake loan facilities for the new £800,000 Town House project. The Council will now make formal application. It is expected that a start to this major project will be made in 1960.

Dundee Housing Schemes

DUNDEE CORPORATION has been given approval of its development plan, with provision for the proposed Tay Road Bridge. The plan, subject of a public inquiry, sets out accommodation for 3300 new houses in nine development areas, where demolition will be carried out. An inner ring road is included. As a result Dundee plans to make an early start on the St. Mary's and Whotterbank housing schemes.

A large housing scheme consisting of 900 houses is planned for Dundee on a site between Douglas and Angus and Arbroath-roads. The first houses may be ready in spring, 1960, and the rest of the houses, planned for the 42-acre site, may be completed by the end of that year. A small school has been provided for in the scheme. Provision has also been made for a group of six shops, with houses over them, and several sites for lock-ups.

Civic Offices for Aberdeen

ABERDEEN TOWN COUNCIL hope to start in September or October their £850,000 scheme to redevelop the west side of Broad-street by the provision of municipal offices.

The Lord Provost's Committee were told recently that the Secretary of State for Scotland was prepared to sanction the borrowing of up to £385,000 to meet the cost of the first phase of the scheme.

Multi-Storey Parking in Glasgow

A SPECIAL sub-committee of Glasgow Corporation is to consider the building of a multi-storey car park which would accommodate about 400 cars. It has been suggested as a possible site for the park an area bounded by North Portland-street on the east, George-street on the south, and Richmond-street on the north.

Port Glasgow to Purchase Houses

THE ASSETS of the Bay Area Trust, which owns 370 houses, 39 shops and a bank, are to be purchased by the Port Glasgow Town Council. The cost is likely to be about £54,000.

New County Buildings

INVERNESS COUNTY COUNCIL recently accepted the final sketch plans for the first phase of new county buildings at Inverness. The new building will be of three-storey design and will be an extension to the existing headquarters on Ardross-street. It is estimated to cost £130,000. The county convener, Mr. F. W. Walker, emphasised that the total cost did not include fees, furnishings, and furniture, and was only an approximate estimate.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2½d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s.	d.
1st	25	52	3
2nd	33⅓	69	8
3rd	50	104	6
4th	66⅔	139	4
5th	75	156	9

For female labour, the rates are:

	s.	d.
Operatives on craft operations (at end of probationary period)	4	2½
Operatives on labouring operations (at end of probationary period)	3	8½

Shopping Centre at Drumchapel

GLASGOW CORPORATION'S sites and buildings sub-committee agreed on May 15 that Arndale (Scotland) Ltd., an Edinburgh firm who specialise in shop development, be asked to build a township centre at Drumchapel, one of the largest post-war housing schemes in Scotland.

The development makes provision for 97 shops, which will be built in three stages. This is the first township centre planned for a Glasgow housing scheme; it is proposed to build others later at Castlemilk and Easterhouse.

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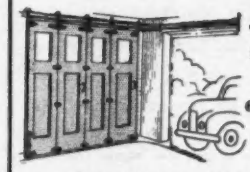

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NEW BUILDINGS

Aberdeen Corpn.—Multi-storey flats at Ashgrove. All trades contract. City A., 11 Broad-st., Aberdeen by June 8.

Aberdeenshire.—TC accept £36,424 tender for 32 houses at Kellands estate.

Airdrie, Coatbridge and District Water Bd.—To reconstruct Roughrigg water works. Conversion of existing clear water basin to slow sand filter replacement of filtered water main by a 12 to 24in. dia. pipe; r.c. culverts, etc., are involved. Water Bd., Broomknoll-st., Airdrie. Dep. £3 3s.

Ayr.—Dean of Guild Court approve plans for shops at Main-rd., Whitletts, four bungalows at Caigh Glengill, and one private house at Moor-pl. Est. cost £31,000.

Edinburgh Corpn.—Gracemount housing: 191 traditional houses, all trades or consortium. First application to City A., City-chmbrs., Edinburgh.

Edinburgh Corpn.—Clermiston school: Extension and alteration to Cramond sch. All trades. City A., City-chmbrs., Edinburgh.

Edinburgh Corpn.—Clermiston South Housing: Two contracts for fireplaces in 80 and 151 houses. City A., City-chmbrs., Edinburgh.

Edinburgh Corpn.—Erection of three multi-storey blocks at Gracemount, containing 80 houses. Crudens Ltd., have been given this contract.

Edinburgh.—Dean of Guild Court warrant to Heart of Midlothian football club for new covered enclosure at Tynecastle Park. Est. cost £23,000.

Fife CC.—Old folks home, Dunfermline. 16,300 sq. ft. Contractors complying with day release on an all-trades basis, County C., Cupar, Fife, by June 3.

Glasgow.—Housing and Works Department to build crematorium at Linn Park. Est. cost, £200,000.

Kirkcaldy Burgh.—168 houses at Bogie Mains; 40 cottages at Park-rd., and 26 cottages at Windmill-rd. All trades basis from selected contractors. Applications to Burgh E., Town House, Kirkcaldy, by June 10.

Kincardine CC.—Extension to Portletham J.S. sch. Details from County A and Planning Officer, Arduthie-rd., Stonehaven. Tenders due June 16.

North of Scotland Hydro-Electric Bd.—Awe Project—Inverawe section:—Tenders invited for realignment of ½m. of 18ft. wide Oban-Dalmally A.85 trunk-rd. Tender documents from Consulting E: Messrs. J. Williamson & Ptrs., 219 St. Vincent-st., Glasgow, C2. Dep. £5.

Renfrew CC.—Construction of r.c. storage reservoir at Hazelden. Tank 84ft. by 82ft. with division walls and 900 lin. yds. 8in. dia. si. pipes and shorter lengths. County E., Backsneddon-st., Paisley.

Rutherglen.—Dean of Guild Court approve plans for 10 houses at Parkhill-dr., two villas at Johnstone-dr. and a branch office for Bank of Scotland at Main-st. Est. cost £56,000.

Perth TC.—Erection of 104 houses at Letham housing scheme. Est. cost £152,318.

Stirling.—Erection of extra wards at Stirling Royal Infirmary. Various contracts on individual trade basis. A.: Keppie, Henderson & Partners, 21 Woodside-pl., Glasgow. Single contract basis considered.

Stirling CC.—New street lighting between Denny and Dennyloanhead. Contracts for supply and erection of r.c. standards, brackets, etc. Names to J. D Kennedy, County Offices, Viewforth, Stirling.

West Fife.—New fuel store at Dunfermline and West Fife hospital. A.: John Fraser and Sons, Maygate, Dunfermline.

Wick Harbour Trust.—Construction of slipway within a cofferdam, slipway yard, rail foundations, jetty, concrete roadways, etc. Work to be completed December 31, 1959. Arch Henderson and Ptnrs., consultants, 21 Bridge-st., Aberdeen.

Grangemouth Housing Scheme

GRANGEMOUTH TOWN COUNCIL are planning erection of 700 houses and a 60-acre industrial estate on the former aerodrome of the town. The Secretary of State for Scotland has approved this development which will be timed to meet the expansion of industry in the area.

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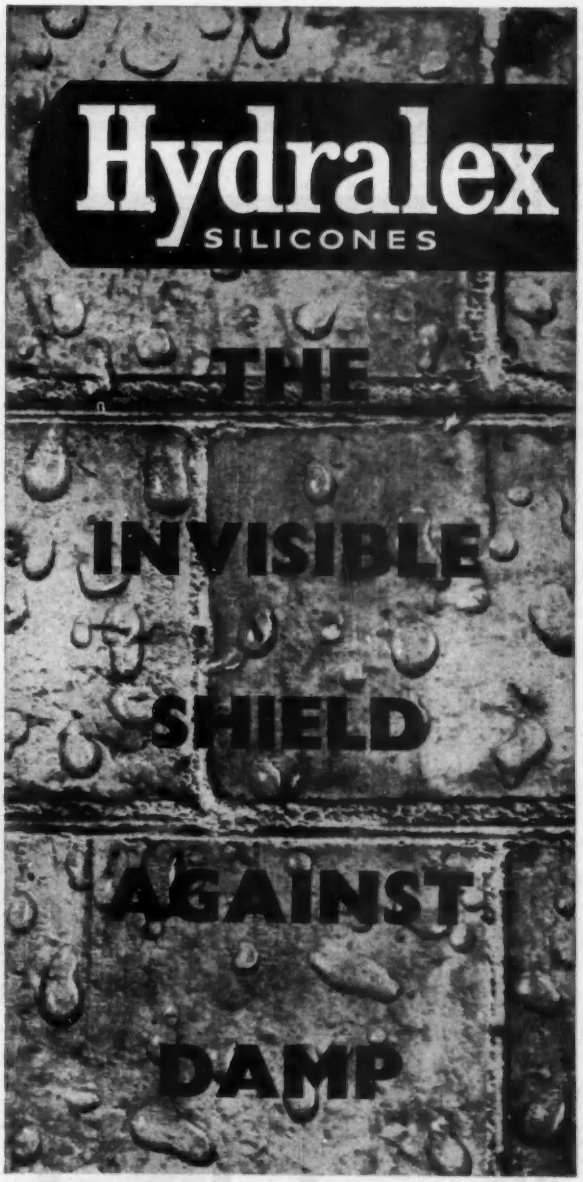

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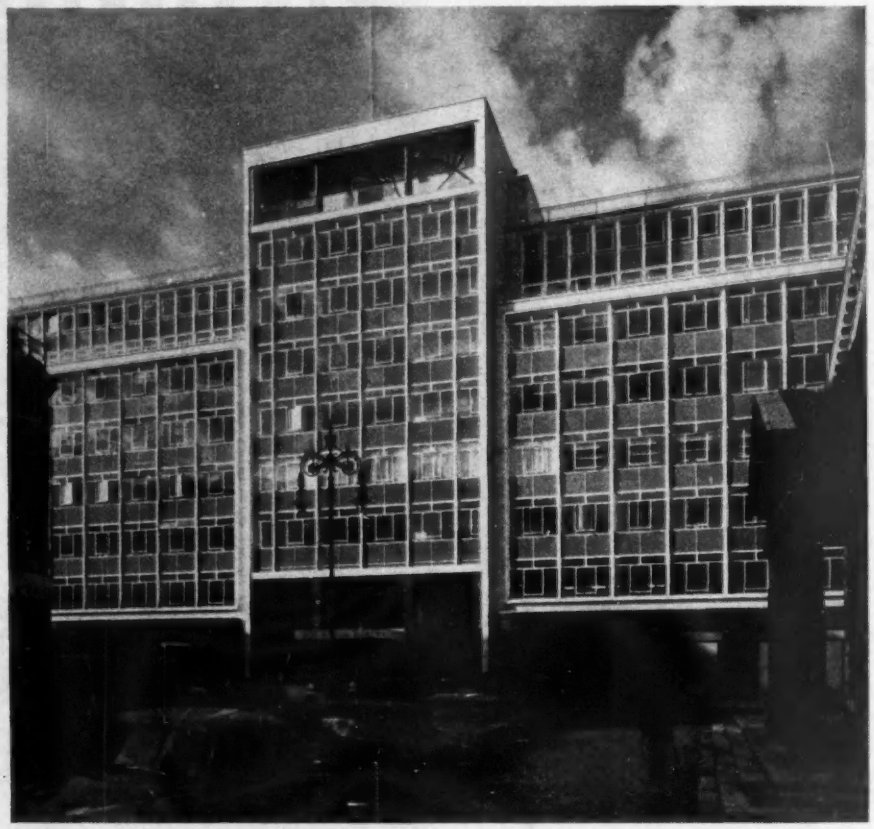

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CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

BUILDING

MAY 30

***†Newcastle upon Tyne City C.**—(a) Provision of washing machines and hydro extractors, and (b) re-roofing and alterations in washhouse, etc., at Benwell baths, Bond-st. City Estate and Property Surveyor. Tenders by June 18.

JUNE 3

***†East Suffolk CC.**—Removal of four temporary classrooms from Halesworth and re-erection at Lothingland S.M. sch., Lound Hall, nr. Lowestoft. County A. Dep. £2 2s. Tenders by June 30.

JUNE 5

***†East Suffolk CC.**—Alterations and additions to 'Cloncurry,' Felixstowe. County A. Tenders by July 3.

***†East Suffolk CC.**—Second instalment of Lowestoft College for Further Education County A. Tenders by July 9.

***†Lewes BC.**—(a) Eight garages, concrete apron, drainage, etc., at Landport-rd.; (b) block of pre-cast concrete garages, concrete bases, apron, drainage, etc., at The Lynchets, and (c) 19 garages, etc., at Queens-rd. (Fixed price tenders.) Boro' E&S. Separate applications.

***†Surrey CC.**—Two-storey laboratory and library wing at Nonsuch county sch. for girls, Ewell-rd., Cheam. County A.

JUNE 6

***†Essex CC.**—(a) Erection of Dagenham Rush Green College of Further Education. (b) Major extensions to Elmbridge county sec. boarding sch., Cranleigh, Surrey. County A.

JUNE 8

***†Isle of Wight CC.**—Fixed price tenders for alterations and extensions at Newport Priory sec. girls' sch., Nodehill, Newport. County A. Dep. £3 3s. Tenders by July 13.

***†Suffolk and Ipswich Fire Authority.**—New fire station and demolition of existing building, at Stowmarket. A: E. J. Cundliffe (A), County Hall, Ipswich. Dep. £2 2s. Tenders by July 6.

JUNE 10

***†Chislehurst and Sidcup UDC.**—Sports pavilion and public conveniences at Mottingham sports ground. E&S. Dep. £3 3s.

***†Norfolk EC.**—Inclusion in selected panel of builders for county branch library at Swaffham. Ch. Education Officer.

***†Weymouth and Melcombe Regis BC.**—46 flats, maisonettes and houses at Chickerell-rd., Weymouth. Boro E.

***†Wolverhampton CBC.**—Extension to Highfields sec. sch. Boro' E. Dep. £2 2s.

JUNE 11

***Havant and Waterloo UDC.**—Fixed price tenders for 44 houses at Beresford-close, Vian-rd. and Kelly-rd., Waterlooville. E&S.

JUNE 12

***†Huyton-with-Roby UDC.**—Fixed price tenders for 11 shops, seven maisonettes and four flats, with ancillary external works, at St. John's-rd. (East) estate. A and Housing Director.

Laois, RI, CC.—14 houses at Emmett-st., Mountmellick. County Secretary, Courthouse, Portlaoise. Dep. £10 10s.

***†Malden and Coombe BC.**—Six houses and six bungalows at Presburg-rd. housing site. Boro' E&S.

***†Southampton CBC.**—28 flats at Bitterne Lodge. Boro' E.

JUNE 13

***†Woking UDC.**—Four flats and four maisonettes at Board School-rd., and 10 bungalows at Well-la. E&S. Dep. £2 2s.

***Wycombe RDC.**—(a) Rebuilding and/or repointing of chimney stacks of 180 properties; (b) repointing of external walls of four houses at Winchbottom, and provision of concrete footpaths, and (c) re-roofing of eight houses at Ditchfield, Lane End. Housing Mgr.

JUNE 15

Doncaster CBC.—One-bedroom bungalows as follows:—Eight at Cantley; nine at Intake; 18 at Wheatley Park, and 25 at Warmsworth. Boro' A.

Donegal, RI, VEC.—New tech. sch. at Gartahock, Co. Donegal. QS: Brian Boyle, 59 Merrion-sq., Dublin. Dep. £10 10s.

***Haverhill UDC.**—Offices and factory extensions, with access road and services. A: J. C. Myers (L), High-st.

***†West Riding of Yorkshire CC.**—(1) Reorganisation of housecraft rooms at Stanley sec. sch. (2) Sanitary equipment to kitchen and toilets in new temporary buildings, with water services and installation of cooking equipment, etc., at Penistone grammar sch. (3) Remodelling of three housecraft rooms at Goole girls' sec. sch. (1) County A. (2) Divisional A, Flint-st., Huddersfield. (3) Divisional A, Planet-rd., Adwick-le-Street, Doncaster. Tenders by June 29.

JUNE 17

***Bath City C.**—Conversion of first and second floors into self-contained flats at No. 17 Paragon. City S. Dep. £2 2s.

JUNE 18

County of Armagh, NI, EC.—New county school and school meals kitchen at Mountnorris:—(a) Main building contract; (b) plumbing and heating installations; (c) electrical installation. Committee's A, 9 Beresford-row, The Mall, Armagh. Dep. £3 3s. each contract.

***Henley-on-Thames BC.**—Eight flats and 10 houses at Waterman's allotments site, Reading-rd. (2nd development). A: Eric G. V. Hives (L), 46 Queen's-rd., Reading. Dep. £2 2s.

JUNE 19

***†Luton BC.**—Fixed price tenders for 19 shops with maisonettes over, with garages and ancillary works at Whipperley Ring, Farley Hill housing estate. Boro' A.

JUNE 20

***Warwick BC.**—42 dwellings, warden's bungalow and community hall at Saltisford Common development. Boro' E&S. Dep. £2 2s.

JUNE 22

***Middlesbrough CBC.**—Improvements to 30 houses at Sevens-st., West Side. Boro' E. Dep. £2 2s.

***Wellingborough UDC.**—Fixed price tenders for 12 flats and four houses, with roadworks, at Abbots-row. E&S. Dep. £2 2s.

***Wrexham BC.**—Fixed price tenders for:—(a) 101 garages on various estates; (b) chain link fencing at Maesydre (1), and (c) chain link fencing at Maesydre (2). Boro' E&S. Dep. £2 2s. (a), £1 1s. each for (b) and (c).

JUNE 23

***Ilford BC.**—(a) Alterations at Gearies sec. boys' sch., Perrymans Farm-rd., Newbury Park, and (b) alterations to Fairlop sec. girls sch., Fencepiece-rd., Barkingside. Boro' E. Dep. £2 2s. each contract.

***Ilford BC.**—Conversion of 24 Empress-ave. into 5 bed-sitting room units. Boro' E. Dep. £2 2s.

JUNE 25

***Croydon CBC.**—Eight garages and four drying-rooms at Montpelier-rd., South Croydon. Boro' E.

***Ealing BC.**—Depot, rent office, etc., at Northolt Park. Boro' S. Dep. £5.

JUNE 26

***Esher UDC.**—Firm price tenders for:—(a) seven houses at Tartar Hill (Cobham); (b) 24 houses at Upper Farm estate, West Molesey, and (c) 59 garages on five sites at West Molesey, Cobham and Oxshot. E&S. Dep. £2 2s.

***Lincoln City C.**—Fixed price tenders for 64 flats, 14 bungalows and 29 garages at Princess-st. redevelopment area. City A. Dep. £2 2s.

JUNE 29

***Brighton CBC.**—Fixed price tenders for 44 garages, with site works, at Lower Bevendean estate. Boro' S. Dep. £2 2s.

JULY 1

***East Riding of Yorkshire CC.**—Health service clinic at Cottingham, nr. Hull. County A. Dep. £2.

***Salford City C.**—Firm price tenders for alterations to Frederick-rd. bus depot, Salford, 6. City E&S. Dep. £3 3s.

JULY 6

***East Riding of Yorkshire CC.**—Two houses on site of proposed county sec. sch. at Barlby, nr. Selby. County A. Dep. £2.

No Date

***Newmarket UDC.**—16 houses at Windsor-rd. A. Dep. £2 2s.

SERVICES, PAINTING, MATERIALS, ETC.

JUNE 10

***Tonbridge RDC.**—Fixed price tenders for installation of central heating system and water supply to 29 flats at Pembury. E&S.

JUNE 13

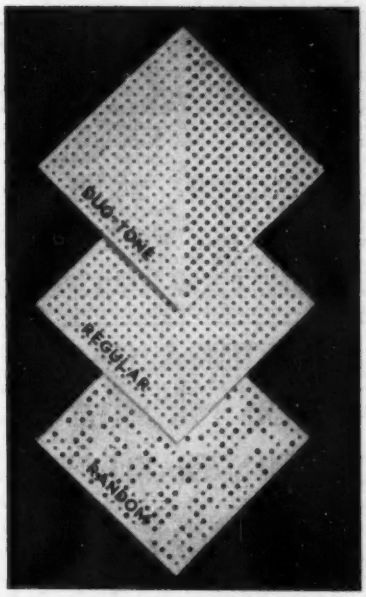
Havant and Waterloo UDC.—Building materials E&S.

JUNE 15

***Wrexham Memorial Hall Com.**—Fixed price tenders for external and internal painting of Memorial Hall. Hon. Surveyor, 31 Chester-st., Wrexham. Dep. £1 1s.

JULY 1

***Salford City C.**—Firm price tenders for painting and decorating of 128 maisonettes to be erected at Cleminson-st. site, Salford, 3. City E&S. Dep. £2 2s.



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JUNE 10

Crayford UDC.—Fixed price tenders for 2,575yd. of 9in.-33in. dia. concrete pipes and tubes, 85yd. of 4ft. by 1ft. 6in. PC concrete culvert, 125yd. of 33in. dia. steel tubes, manholes, outfall to river, etc. E&S. Dep. £5 5s.

JUNE 11

Havant and Waterloo UDC.—Purbrook relief sewer.—1,895 lin. yd. of 9in. to 15in. dia. foul water sewers, etc. E&S.

Worcester City C.—Warndon SW outfall sewer.—915 lin. yd. of 36in. to 54in. dia. precast concrete tubes, manholes, r.c. culvert under Worcester-Birmingham canal, etc. City E. Dep. £3 3s.

JUNE 12

Government of Northern Ireland.—Reconstruction of section of trunk road T.1 at Knocknagoney for 1½ miles between Tillysburn and Holywood, Co. Down. Ministry of Commerce, Room 45, Chichester-hse, Chichester-st., Belfast. Dep. £5.

JUNE 13

Taunton BC.—Clatworthy water scheme.—5,300yd. of 10in., 16in. and 20in. trunk mains from Tetton Park reservoir to Greenway-rd., Taunton. Rofe & Raffety, engrs., 9 Brewers'-green, Buckingham-gate, SW1. Dep. £2 2s.

JUNE 15

Bridge-Bkan RDC.—5,800yd. of 12in., 9in. and 6in. concrete and spun-iron pipe sewers, manholes, ventilators, etc., 1,400yd. of 6in. and 4in. spun-iron pumping mains, sewage disposal works, etc., in Sturry and Fordwich parishes. D. Balfour & Sons, M/MICE, 131 Victoria-st., Westminster, SW1. Dep. £10.

JUNE 15

Haydock UDC.—Haydock Park sewerage scheme—(a) 1¼ miles of 6in. to 24in. dia. concrete and spun-iron pipe sewers, etc. (b) Sub-pumping station and delivery main. Charles J. Lomax & Son, engrs., 68 Barton-chbrs., Barton Arcade, Deansgate, Manchester, 3. Dep. £5 5s.

Porthcawl UDC.—1,312yd. of 42in., 27in. and 15in. concrete sewers, manholes, etc., including 217yd. of 42in. pipeline on foreshore. John Taylor & Sons, Artillery-hse., Artillery-row, Westminster, SW1. Dep. £5.

JUNE 19

Leicester City C.—Central ring road.—20,000yd. super. of road works, 1,100yd. 1in. of foul and storm sewers, 9in. to 36in. dia., with manholes, and 12,000yd. super. of flagged footway; also turfing, etc. City S. Dep. £1 1s.

JUNE 25

Cambridge City C.—1,560 lin. yd. of 42in.-15in. dia. concrete pipes, 460 lin. yd. of 12in. and 9in. dia. SGW pipes, river outfall, manholes, etc. City S. Dep. £2 2s.

JUNE 29

Cheltenham BC.—Outfall sewer from Arle Tank to Heyden sewage disposal works.—2,585yd. of 42in., 54in. and 57in. pipe in open cut and 730yd. of 57in. brick-lined sewer in tunnel, with manholes, flume chambers, overflows, etc. Boro' E. Dep. £15 15s.

Downham Market UDC.—Fixed price tenders for 1,000 lin. yd. of 6in. to 15in. dia. SGW and concrete pipe sewer and second stage of purification works, etc. J. D. & D. M. Watson, Ccl's. constg. engrs., 67 Tufton-st., Westminster, SW1. Dep. £10 10s.

North Cotswold RDC.—Fixed price tenders for 8,600 lin. yd. of 4in. and 3in. dia. water mains and fittings and 75,000 gall. concrete reservoir. W. Herbert Bateman & Ptnrs., Ccl's. constg. engrs. Chesterfield-hse., Batheaston, Bath. Dep. £3 3s.

JUNE 30

†Manchester City C.—Davyhulme sewage works extensions.—(1) Construction, on waterlogged site, of pre-aeration plant and primary sedimentation plant, involving sinking of caissons, etc. (2) New outfall to Manchester Ship Canal. City S.

JULY 4

Lydney RDC.—Alvington and Woolaston sewerage and sewage disposal.—3,250 lin. yd. of 6in. dia. SGW gravity sewers, 52 precast concrete manholes and small sewage treatment plant. J. D. & D. M. Watson, M/MICE, 67 Tufton-st., SW1. Dep. £5 5s.

JULY 6

Kerry, R.I. CC.—3,955 lin. yd. of 6in. to 12in. dia. concrete pipe sewers with manholes, storm overflows and ventilating columns and purification works at Ballyheigill, Co. Kerry. E. R. Ryan, constg. engr., 1 Montpellier-terr., Galway. Dep. £10 10s.

'THE BUILDER' PRICES

Until further notice, 'The Builder' Current Prices of Materials section will appear in the first issue of each month only. The 'Measured Prices for New Building Work in London' feature will appear in the second issue of each month. There have been no alterations in materials prices since last week.

GENERAL BUILDING WORK

(LONDON)

Dartford.—TECHNICAL COLLEGE.—The MofE is prepared to approve Kent CC's preliminary plans and estimates, amounting to £87,300, for the provision of the assembly hall and electrical laboratories at the North West Kent College of Technology and to agree that a contract should be negotiated with the contractor at present engaged on Phase 2 of the new buildings. The County Architect is E. T. Ashley-Smith (F).

Hammersmith.—THEATRE.—Two planning applications for permission to redevelop the site of the King's Theatre are before the LCC. Bernard Gold & Ptnrs. (F), 1 Hay Hill, W1, are the architects for a proposed showroom and offices and H. Owen Luder (A), 79 Regency-st., SW1, has submitted proposals for an eight-storey block of offices on the site.

Hornchurch.—SCHOOL.—The Essex CC has approved sketch plans for the proposed Roman Catholic grammar school for boys. The estimated total cost of erection is £220,712.

Westminster.—LECTURE THEATRE.—Planning approval has been received for proposals of the Royal Aeronautical Society to extend their premises at 4 Hamilton-pl., Piccadilly, by adding a new lecture theatre in single-storey construction backing on to the new Apsley carriageway at the rear. The architects for the scheme which is estimated to cost £150,000, are Ley, Colbeck & Ptnrs. (F), 51 Bishopsgate, EC2.

Westminster.—THEATRE, SHOPS AND OFFICES. A revised plan, devised to meet the LCC's objections to a proposal for a block of shops and offices incorporating a theatre with 990 seats which was refused planning permission last October, has been prepared by the architects, T. & P. H. Braddock (F/A), 14 Great Smith-st., SW1.

Wimbledon.—SCHOOL EXTENSION.—The BC has given permission for the extension of the Senior School of King's College at the junction of Wright's Alley and South Side. The development entails demolition of some of the existing buildings and replacement by a 3-storey building comprising school dining hall, classrooms, cloakrooms and ancillary accommodation.

Wimbledon.—FLATS.—The BC has given provisional permission to an outline application to develop vacant land adjoining Pitman's College, Worcester-rd., by a block of eight flats.

Wimbledon.—NEW RESIDENTIAL ROAD.—BC has given provisional permission to the formation of a new road on the Beaulieu estate and development by 20 building plots.

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(PROVINCIAL)

Aberystwyth.—Carmarthenshire and Cardiganshire Joint Fire Brigade Com. received Home Office approval for new fire station.

Basildon.—Essex CC approved Welfare Com's. proposal for new home at Fryerns for 62 residents, £67,000 est.

Bedlington.—UDC plans new council offices at Front-st., £42,000 est. S: A. K. Dennis.

Blackburn.—EC approved final plans for new girls' high sch., £194,930 est.—TC proposes multi-storey car park on Ainsworth-st. site.

Bradford.—TC approved scheme for new central library at junction of Winchester-rd. and Little Horton-la., £550,000 est. To prepare sketch plans for extensions to the Town Hall.

Carlisle.—Working drawings being prepared for new admission unit and convalescent villas at Garlands mental hospital for Newcastle-on-Tyne Hospital Bd., 72 Warwick-rd., Carlisle. A: Messrs. J. M. Sheppard & Ptnrs., 38 Bedford-pl., WC1.

Cheshire.—EC proposes new schools at Station-rd., Woodley, and Bredbury Green, Bredbury.

Cockermouth.—RDC to build 26 houses at Dearham, as first part of project providing for 104 houses. S: A. E. Simpson.

Cumberland.—CC proposes old people's home at Workington, £54,000 est. County A: J. H. Haughan (F), 15 Portland-sq., Carlisle.

Darlington.—B.R.S. (Pickfords), Ltd., 102 Blackstock-rd., N4, to build furniture warehouse at Haughton-rd., Darlington, and have prepared outline plans.

Derbyshire.—Major school building programme for 1960-62 submitted to MofE as follows:—Allestree county jun., £56,672; Shelton Lock county sec., £72,000; Sandiacre county sec., £130,338; Ockbrook Borrowash Ashbrook county infants', £29,656; Mickleover county infants', £44,275; Dronfield county jun., £58,900; Long Eaton Sawley county jun., £57,672; Heath county sec., £171,931; South Normanton-Pinxton county sec. (extensions), £157,472; Alfreton Mortimer Wilson county sec. (extensions), £99,485; Shirebrook county sec., £173,845; Long Eaton county sec., £232,675; Heanor Gate county sec., £217,924; Ilkeston RC sec., £111,969; Swadlincote county sec., £324,269; Spondon-hse. county sec., £265,833; Glossop county sec., £281,360; Eckington comprehensive (extensions), £276,518; Matlock Ernest Bailey county sec., £139,336; Chesterfield Violet Markham county sec., £78,750; Bakewell county sec., £153,008; Dronfield Henry Fanshawe sch. (extensions), £117,800; Chesterfield School, £202,225; Buxton Cavendish girls', £66,100; Belper Herbert Strutt county sch. (extensions), £78,255.

Essex CC.—Sketch plans and estimates approved for extensions and adaptations to Billericay county sec. sch., £50,500; and for new infants' premises for 240 at Thundersley county prim. sch., £32,350. County A: H. Conolly, CBE. (F).

Ilkeston.—TC approved in principle bus station at South-st., White Lion-sq. and Market-st.

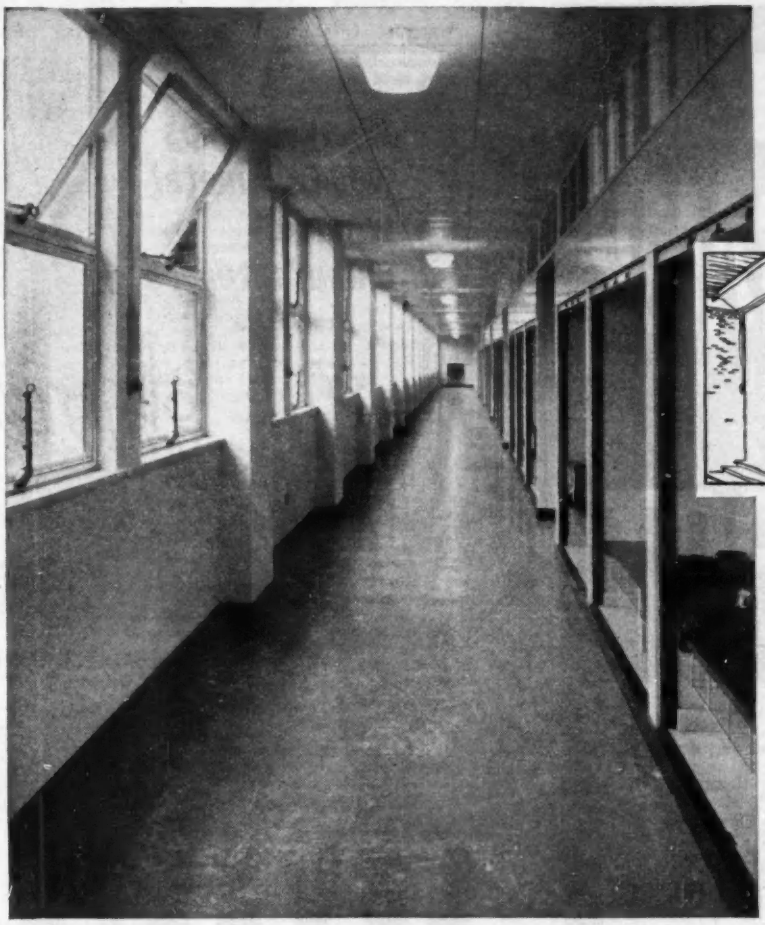
Irlam.—Salford TC proposes 600 houses on overspill site at Higher Irlam. Inquiry held.

Littlehampton.—UDC to build 20 three-bedroom flats and eight one-bedroom flats for old people.

Liverpool.—TC to prepare detailed plans for Stage 2 of new College of Technology.

Macclesfield.—RC Diocese of Shrewsbury proposes new sec. mod. sch., £98,736 est. A: Reynolds and Scott, 9 Albert-sq., Manchester.

Maidstone.—Kent CC approved schemes for Supplies Dept. warehouse, £161,000 est., and centralisation of heating services, £38,000 est., at Springfield site, and work expected to start this year. Further developments proposed at Springfield include extension of Education Dept.'s offices, £93,000 est., and new County Library headquarters, £145,000 est. Archives Com. may propose scheme for accommodation for exhibiting archives, £20,000 est. County A: E. T. Ashley-Smith (F).



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Manchester.—TC approved plans for 3-storey building for production of dyestuffs at Ashton New-rd., Colliery-st. and Clayton-la., Clayton, for Clayton Aniline Co., Ltd.

Nant Conway.—RDC proposes 36 houses at Rowen in Conway Valley.

Newcastle-on-Tyne.—After inquiry, MH&LG rejected plan by City C to acquire compulsorily 200 acres of land at Newburn for housing. Owners, J. T. Bell & Sons, builders, Market-st., Chbrs., Newcastle, intend building 1,400 houses there in next three years.

Northumberland.—CC to negotiate price with T. Muckle & Sons, Rothbury (contractors for first section), for building second instalment of Byrness county prim. sch.—Preliminary estimates submitted to CC:—Proposed Newbiggin Hall North prim. sch., £122,600; Newbiggin Hall sec. sch., £182,000; Newbiggin Hall South prim. sch., £57,700; Forest Hall infants' sch., £54,000; Old Hartley infants' sch., £30,000; and South-East Northumberland tech. college, £313,000.—CC to extend Backworth prim. sch. and Stobhillgate prim. sch., £20,000 each. County A: C. C. Brown (A), County Hall, Newcastle-on-Tyne.

TENDERS

* Denotes *accepted.*
† Denotes *provisionally accepted.*
‡ Denotes *recommended for acceptance.*
§ Denotes *accepted subject to modification.*
¶ Denotes *accepted by H.M. Government Departments.*

Ascot.—Extensions and reconstruction work in formation of Out Patients' Dept. at Heatherwood Orthopædic Hospital for North West Metropolitan Regional Hospital Bd. A: John R. Harris (F), 38 Queen Anne-st., W1. QS: Young & Brown, FRICS, 104 High Holborn, WC1. *J. M. Jones & Sons Ltd., Maidenhead. £116,000.

Basingstoke.—58 flats, houses and bungalows, and 27 garages at St. Peter's-rd. for BC. Boro' A: E. Almond (A). QS: S. J. Bryant & Son. A. J. Dunning & Son (Wevhill) Ltd. £103,043. *Mussellwhite & Son Ltd. Eastrop Works, Basingstoke. £102,926.

Bilston.—22 two-storey and 78 three-storey flats at Church site and Cherrywood Green site for TC. *Gregory Housing Ltd., Worthing.

Birkenhead.—Erection of St. Michael and All Angels RC prim. sch. for RC Authorities. *Lloyd & Cross Ltd., Port Causeway, Bromborough.

Bolton.—Workshop block at Technical Teachers' Training College for EC. *F. Pardon Ltd., Glebe-st., Bolton.

Bracknell.—Extensions to factory of E. M. O. Instrumentation Ltd., at Western-rd. for DC. A: E. A. Ferriby (A), AMTPI, Farley Hall, Binfield, Bracknell, Berks. QS: V. C. Douglas, FRICS, Farley Hall, Binfield, Bracknell, Berks. *J. M. Jones & Sons Ltd., Maidenhead. £47,000.

Bradford.—Further 89 dwellings at Holme Wood estate for TC. *M. Harrison & Co. (Leeds) Ltd., Post Hill Quarries, Farnley, Leeds.

Brierley Hill.—New public baths for UDC. *McKeand Smith & Co. Ltd., Wolverhampton. £110,601.

Burnley.—Large new factory at Simonstone for Mullard Ltd. *Holland & Hannen and Cubitts Ltd., St. Mary's-rd., Garston, Liverpool.

Carlisle.—New laundry at Durranhill industrial estate for Initial Services Ltd. *John Laing & Son Ltd., Dalston-rd., Carlisle.

Chigwell.—Additions and adaptations to Loughton Fairmead county sec. sch. for Essex CC. County A: Conolly, CBE, (F). *A. R. Sheppard Ltd., South Woodford. £11,333 (subject to savings of £475).

Clowne.—Works for RDC: 16 houses and 12 bungalows at Park View site. *J. Haslam & Sons, Ryton-chbrs., Newcastle-ave., Worksop. £33,365.—16 houses at New-st., Bakestone Moor, Whitwell. *Adam Eastwood & Sons Ltd., Warsop. £20,640.

Cookham, Berks.—New rectory at Hurley for Rev. A. E. Littlewood. A: Lassetter & Judd (L/A), Somerset-hse., Blagrave-st., Reading. QS: Henry Cooper & Sons, FRICS, 64 London-rd., Reading. *J. M. Jones & Sons Ltd., Maidenhead. (Negotiated tender).

Cumberland.—Old people's home at Maryport for CC. County A: J. H. Haughan (F), 15 Portland-sq., Carlisle. *J. Twiname, Ltd., Brigham, Cumberland. £47,983.

Cumberland.—Eight police houses on four sites in Whitehaven area for CC. County A: J. H. Haughan (F), 15 Portland-sq., Carlisle. *J. Twiname, Ltd., Brigham, Cumberland. £21,517.

Cumbernauld.—208 houses for DC. A: Gillespie, Kidd & Coia (F/A), 20 Park-circus, Glasgow, C3. Constg. engrs., F. A. Macdonald & Ptnrs. QS: Currie & Brown. *Holland & Hannen and Cubitts (Scotland) Ltd. £350,000.

Derbyshire.—Extensions at Wingerworth prim. sch. for EC. *Greenwoods (Mansfield) Ltd. £29,133.

Durham.—New quadrangle consisting of one, two and three-storey building surrounding central quadrangle at Grey College, Durham, for Durham University. A: Thomas Worthington & Sons, 178 Oxford-rd., Manchester. Constg. engrs.; C. S. Allott & Son. QS: C. W. Davidson & Co. *Holland & Hannen and Cubitts (Scotland) Ltd. £200,000.

Eston.—Works for UDC. S: N. C. Harrison, 246 Normanby-rd., South Bank-on-Tees:—*P. Golden, 4 Bevanlee-rd., South Bank (12 houses), £14,479. *W. Balderson, 110 High-st., Eston (28 houses), £34,925; (32 houses), £38,282.

Gateshead.—Extensions to factory (15,600 sq. ft.) for Burgess Products, Ltd., Team Valley trading estate. A: Cackett, Burns Dick & Mackellar (F), 21 Ellison-pl., Newcastle-on-Tyne. *Wimpey & Co., Ltd., Orchard-hse., Fenwick-terr., Newcastle-on-Tyne.

Gateshead.—Extensions to factory (19,000 sq. ft.) for Eimco Ltd., Team Valley trading estate. A: Messrs. C. S. Errington, 46 Grainger-st., Newcastle-on-Tyne. *Stephen Easten Ltd., Westgate Grange, Newcastle-on-Tyne.

Heanor.—52 dwellings at Godkin estate for UDC. *B. E. Williamson, 34 Edward-st., Langley Mill.

Hebburn.—New office block for Baker Perkins Ltd., Bedewell Works. *Bewley & Scott Ltd., Dunston-on-Tyne.

Lanchester.—Factory extensions (20,000 sq. ft.) for North-Eastern Trading Estates Ltd., Gateshead, on behalf of Sirus Products Ltd. A: Fennell & Baddiley (L/A), Bridge End-chbrs., Chester-le-Street. *G. Henderson, East Boldon, Co. Durham.

¶London (Air Ministry).—New works contracts to value of £500 or over for two weeks ended May 22:—*Building work:* Benson, Oxon., W. H. Streeter Ltd., 10 Tudor-rd., Hampton, Middx.; Brampton Park, Hunts., A. J. G. Potter & Sons Ltd., Stanwick, Wellingborough, Northants.; Coltishall, Norfolk, Potter Bros., East Dereham, Norfolk; Colchester, Essex, Hutton (Builders) Ltd., Birch, Colchester, Essex; Sturgate, Lincs., H. Dorrington & Sons Ltd., Spital-terr., Gainsborough, Lincs.; Honington, Suffolk, Tooley & Youngs, High-st., Stalham, Norfolk; Bruntingthorpe, Leics., Kyle Stewart (Contractors) Ltd., Empire-way, Wembley, Middx. *Runway work:* Mildenhall, Suffolk, Universal Highways Ltd., Staines, Middx. *Modifications (hard standings):* Wyton, Hunts., W. & C. French Ltd., Buckhurst Hill, Essex. *Artificers work:* Nocton Hall, Lincs., etc., W. & J. Simons Ltd., Gordon-rd., West Bridgford, Nottingham; Ventnor, Isle of Wight, etc., G. E. Banks & Son, 38 Lake Hill, Sandown, Isle of Wight; Abingdon, Berks, etc., Geo. Foster (Contractors) Ltd., Leamington-rd., Broadway, Worcs. *Heating services:* Mildenhall, Suffolk, Arthur Scull & Son Ltd., Kingsway-hse., Kingsway, WC2. *Installation work (boiler house plant, etc.):* Marham, Norfolk and Honington, Suffolk, Hopes Heating & Engineering Ltd., 16 Berners-st., W1. *Site investigation (geophysical) exploration and test bores;* Netheravon, Wilts., The Cementation Co. Ltd., P.O. Box 151 Twenty, Albert Embankment, SE1. *Stripping, re-sheeting, etc., of hangar;* London Airport, Carter-Horseley (Engineers) Ltd., Merebank-la., Waddon, Croydon, Surrey. *Electrical installations:* Aden, Thorpe & Thorpe Ltd., Capel-hse., EC2.

London (British Railways).—Contracts placed by North Eastern Region: Installation of electric lighting on York Dringhouses yard and adjacent buildings. *F. Shepherd & Son Ltd., York.—Removal of existing heating equipment and installation of new heating system in offices at Leeds City station. *Raines (H. & V.) Ltd., Wakefield.

London (British Railways).—Contracts placed by North Eastern Region:—Now goods shed at Hull English-st. *Octavius Atkinson & Sons Ltd., Harrogate.—Low pressure hot-water installation in mess rooms at Newcastle Forth Banks goods depot. *Brightside Heating & Engineering Co. Ltd., Newcastle.

London CC.—Stage 1 of improvement and diversion of Lambeth Palace-rd. and realignment of Westminster Bridge-rd. in connection with extension of St. Thomas's hospital. Ch. E.: J. Rawlinson, CBE, MICE. Senior Divisional E: F. M. Fuller, OBE., MICE. *Carlton (Civil Engineering) London Ltd., Carlton-hse. Ashley-rd., Epsom.

¶London (Metropolitan Police).—Tenders for internal redecorations and external painting:—1-12 Avalon-close, Ealing, Decra Ltd., £1,506; Wakefield-hse. and Sydmons-court, C. R. Voysey & Co. Ltd., £2,814; Lynher Lodge, A. C. Wright (Eltham) Ltd., £1,199; 1-24 Coniston Court, N. J. Kemp & Co. Ltd., £2,464; Croydon Police Station, J. C. Bowyer Ltd., £921; Wyatt-hse. and annexe, J. E. Evans (Woolwich) Ltd., £2,952; 'Undercliff,' 71 Blackheath Hill, Wright (Eltham) Ltd., £1,604.

¶London (MoW).—Contracts placed for week ended May 15:—*Hampshire:* Lucknow and Mooltan barrack lines, Tidworth, external electric mains distribution and street lighting, Troughton & Young Ltd., Imperial Court, Basil-st., Knightsbridge, SW3. *Lincolnshire:* Holland-rd., Spalding, erection of new Crown building, Bernard Pumfrey Ltd., Wintern Works, Lea-rd., Gainsborough. *London:* Swiss Cottage, 18 Finchley-rd., NW8, new branch Post Office, George Moss & Sons Ltd., Cranleigh Wharf, Lady Margaret-rd., Southall, Middx.; Battersea District Office, erection, Lavender McMillan (Contractors) Ltd., 54 Cheam Common-rd., Worcester Park, Surrey; Ibex-hse., Minories, EC3, internal decorations, Clark & Fenn Ltd., 16 Old Town, Clapham, SW4; Temple Bar telephone exchange, Covent Garden, WC2, internal decoration work, South London Decorators Ltd., 9 Streatham High-rd., SW16; Welfare block and garage, East Bank-rd., Stamford Hill, N16, alterations and additions, E. J. Lacy & Co. Ltd., Steele-rd., NW10. *Midlothian:* Royal Scottish Museum, Chambers-st., Edinburgh, removal of existing boilers and installation of new boilers, Charles Ritchie & Co. Ltd., 60 Lorne-st., Edinburgh, 6. *Northumberland:* Station sorting office, Orchard-st., Newcastle, internal redecorations, T. W. Nixon Ltd., Northumberland-rd., Newcastle. *Nottinghamshire:* Nottingham J.O.P., Chalfont-dr., replacement of boilers and installation of mechanical stokers, Beck & Sons (Mansfield), Ltd., Clarkson-st., Mansfield. *Warwickshire:* Shipston-on-Stour, erection of Post Office and sorting office, Coleman & Tyas Ltd., Victoria-rd., Bidford-on-Avon. *Yorkshire:* Prison Commission, New Hall Camp, Wakefield, pro-

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¶London (War Dept.).—Works contracts placed for week ended May 15:—*Buckinghamshire:* (Beaconsfield), grass cutting, John Waterer, Sons & Crisp Ltd., Twyford, Berks. *Cheshire:* (Chester), roadwork, The Trinidad Lake Asphalte Co. (North Western) Ltd., Liverpool. *Hampshire:* (Aldershot), building, E. J. Logan (Putney) Ltd., Putney. *Kent:* (Canterbury), building, J. J. Clayson & Son Ltd., Folkestone; (Shorncliffe), painting and decorating, Geo. Jones & Son (Contractors) Ltd., W8. *London:* (SE18), electrical, Freeman Electrical Co. (London) Ltd., E1.

Middlesbrough.—First instalment of proposed St. Mary's College for EC. A: Thomas A. Crawford (L), 80 Borough-rd., Middlesbrough. *Hudson Bros., Fidler-st., Middlesbrough. £79,705 (reduced tender).

Newton Aycliffe.—Factory additions (10,800 sq. ft.) for Tallent Ltd. A: Fennell & Baddiley (L/), Bridge End-chbrs., Chester-le-street. *D. & J. Ranken Ltd., Stockton-rd., Sunderland.

Northamptonshire.—Works for CC. County A: A. N. Harris (F).—Single bay fire station at Earls Barton. *P. Holyoak & Co. Ltd., Allen-rd., Finedon. £6,596 (reduced tender).—King's Cliffe sec. mod. sch. *Henry J. Firman Ltd., Peterborough. (Reduced tender.)—Wellingborough police station. *A. J. G. Potter & Sons Ltd., Stanwick. £55,650 (reduced tender).—Brackley high sch.: extensions. *Blencowe Bros., Burwell Hill, Brackley. £9,999 (reduced tender).—Duston mod. sch.: extensions. *A. P. Bland & Co. Ltd., Grafton-st., Kettering. £32,154.—Corby Beanfield jun. sch. *Drabble Construction Ltd., Wellingborough. £81,682 (reduced tender). *Woodford-cum-Membris mod. sch.: extensions. *C. E. Ivens & Son Ltd., Lichborough. £16,880.

Pembrokeshire.—New sec. sch. at Tenby for CC. County A: Walter Barrett, MBE, (A), County Offices, Haverfordwest. QS: C. R. Wheeler, 70 Victoria-st., SW1.

Hadsphaltic Construction Co. Ltd. ..	£273,180
Gibson & King Ltd.	272,892
E. Turner & Sons Ltd.	271,953
Demolition & Construction Co. Ltd. ..	271,333
Gee, Walker & Slater Ltd.	267,857
John Laing & Son Ltd.	266,609
Isaac Jones (Llanelly) Ltd.	264,427
Geo. Argent & Co. Ltd.	260,811
*Wm. Eaves & Co. Ltd., Daggers Hall Works, Vicarage-la., Blackpool	260,000

Rochdale.—Erection of Brownhill special sch. for EC. *Pochins (Contractors) Ltd., King-st., Middlewich.

Rotherham.—Extensions at Ackroyd-hse. for BC. *Wade Construction Co. Ltd., Sandgrave, Wath. £14,408.

Sedgley.—Shops and flats at Kent-st. redevelopment area for UDC. *Nathan Hyde, 6 Claremont-rd., Sedgley. £20,857.

Sheffield.—Following for TC:—Alterations to upper floor accommodation at 41/47 High-st. *R. S. Hutchinson Ltd., Sheffield. £14,110.—Four shops, four maisonettes and three garages at the Herdings, Gleadless Valley estate, *Reeves Charlesworth Ltd., 27 Wilkinson-st. £18,795.

Southport.—Phase 2 of new mental deficiency colony at Greaves Hall, Banks, for Liverpool Regional Hospital Bd. *Lloyd & Cross Ltd., Port Causeway, Bromborough., Ches. £1,263,153. (In lieu of tender withdrawn.—This corrects information published in our last issue.)

Staffs.—Following for CC:—Child welfare centre at Kingsbridge-ave., Clayton, Newcastle-under-Lyme. *Tideswell Bros. Ltd., Brick Kiln-la., Basford, Stoke-on-Trent. £13,147.—New garage opposite Crown Inn, Aston. *Bailey & Co., Ltd., 169 Mayne-st., Hanford. £14,478.

Walthamstow.—Remodelling and extension of Walthamstow Chapel End county sec. and jun. schools for Essex CC. County A: H. Conolly, CBE, (F). *W. J. Jerram, Ltd. £72,986 (subject to savings of £3,073).

Westminster.—Eight-storey block of eight flats with basement garage on bombed site of 26 St. James's-pl., St. James's-st., SW1, owned by Malvin Investment Co. A: Denys Lasdun, MBE, (F), of Fry, Drew, Drake & Lasdun (F/A), 3 Albany-terr., NW1. Constg. structural engrs.: Ove Arup & Ptnrs. QS: Cyril Sweett & Ptnrs., 37 Bedford-row, WC2. *J. Jarvis & Sons Ltd., 239 Vauxhall Bridge-rd., SW1.

Whitehaven.—Proposed 'Shipwright's Arms' inn for Colin Croft Brewery Co. Ltd. *John Laing & Son Ltd., Dalston-rd., Carlisle.

Wigan.—Erection of Pemberton sec. mod. sch. for EC. *J. Gerrard & Sons Ltd., Swinton, nr. Manchester. £161,394.

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OFFICIAL ANNOUNCEMENTS

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Rate : 30/- per inch, minimum ½-inch ; each additional line 2/-

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

CONTRACTS

THE HAVANT AND WATERLOO URBAN DISTRICT COUNCIL

invite FIXED PRICE TENDERS for the ERECTION OF 44 HOUSES at Beresford-close, Vian-road, and Kelly-road, Waterlooville. Conditions of Contract and Drawings may be inspected at the offices of the Engineer and Surveyor, 1 Park-road North, Havant, from whom Bills of Quantities and Form of Tender may be obtained on or after Monday, 25th May, 1959. No Tender will be received except in a plain sealed envelope, which may bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender, and must be delivered to the Clerk of the Council, Town Hall, Havant, not later than 12 NOON on THURSDAY, 11th JUNE, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

COUNTY BOROUGH OF SOUTHAMPTON.

CONTRACT B.336—TWO BLOCKS OF FOUR-STOREY TRADITIONAL FLATS TYPE "P" (14 FLATS PER BLOCK) AT BITTERNE LODGE.

TENDERS are invited for the above contract on Bills of Quantities which will be available at the end of June. Applications for Tender documents should be received by the Borough Engineer, Civic Centre, Southampton, by 10 a.m. on FRIDAY, 12th JUNE, 1959.

WREXHAM MEMORIAL HALL COMMITTEE.

FIXED PRICE TENDERS are invited for EXTERNAL and INTERNAL PAINTING of the Memorial Hall.

Application for Specification and Tender Form from Honorary Surveyor, "Bodhyfryd," 31 Chester-street, Wrexham, enclosing deposits of £1 1s. 0d. refundable on receipt of bona fide Tender. Closing date for receipt of Tender 12 NOON, 15th JUNE, 1959.

The Committee does not bind itself to accept the lowest or any Tender.

Attention is drawn to the fact that the work must be completed between 10th August and 22nd August, 1959 (inclusive).

PHILIP J. WALTERS,
Honorary Secretary.

Guildhall,
Wrexham.
20th May, 1959.

SUFFOLK AND IPSWICH FIRE AUTHORITY.

STOWMARKET—PROPOSED NEW FIRE STATION.

Building Contractors wishing to TENDER for the ERECTION OF THIS STATION of approximately 2,000 square feet floor area, together with the demolition of the existing building, should apply to the Architect to the Authority, Mr. E. J. Cundliffe, A.R.I.B.A., at the County Hall, Ipswich, before the 8th June, 1959.

A deposit of two guineas is required on application (cheques payable to Suffolk and Ipswich Fire Authority) and will be returned on receipt of Tender.

Plans can be seen at County Hall, Ipswich, between the hours of 9 a.m. and 5 p.m. Bills of Quantities, etc., will be sent out on 15th June, 1959, for Tenders required by the 6th JULY, 1959.

COUNTY BOROUGH OF CROYDON.

NOTICE TO BUILDERS.

Contractors wishing to TENDER for BUILDING EIGHT TRADITIONAL-TYPE GARAGES AND FOUR DRYING-ROOMS at Montpelier-road, South Croydon, should send their names to the Borough Engineer at the Town Hall. Closing date for Tenders, 25th JUNE, 1959.

E. TABERNER,
Town Clerk.

BOROUGH OF WREXHAM.

FIXED PRICE TENDERS are invited for :—

(a) 101 BRICK GARAGES on various estates.

(b) CHAIN LINK FENCING, Maesydre (1).

(c) CHAIN LINK FENCING, Maesydre (2).

Application for Specification, Tender Forms, etc., from Borough Engineer and Surveyor, Bodhyfryd, 31 Chester-street, Wrexham, enclosing deposits of £2 2s. 0d. for (a) and £1 1s. 0d. each for (b) and (c) refundable on receipt of bona fide Tenders.

Closing date for receipt of Tenders—12 NOON on 22nd JUNE, 1959.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
May, 1959.

ESHER URBAN DISTRICT COUNCIL.

ERECTION OF 31 DWELLINGS AND 59 GARAGES ON VARIOUS SITES.

The Council invites FIRM PRICE TENDERS from firms for carrying out the following works:—

Contract No. 253: 7 DWELLINGS at Tartar Hill, Cobham, comprising ONE BLOCK OF 4/3 BEDROOM HOUSES and ONE BLOCK OF 1/3 BEDROOM AND 2/2 BEDROOM HOUSES.

Contract No. 278: 24 DWELLINGS at Upper Farm Estate, West Molesey, comprising 2 PAIRS OF 2 BEDROOM HOUSES, 4 BLOCKS OF 3/3 BEDROOM HOUSES, 2 BLOCKS OF 4/3 BEDROOM HOUSES.

Contract No. 286: 59 BRICK-BUILT GARAGES on the following sites:—

6 GARAGES at Eastcote-avenue, West Molesey.

10 GARAGES at Down-street, West Molesey.

18 GARAGES at Hamilton-avenue, Cobham.

12 GARAGES at Waverley-road, Oxshott (Littleheath Farm Estate).

13 GARAGES at Webster-close, Oxshott (Littleheath Farm Estate).

Form of Tender, drawings, bill of quantities, for work below damp course level and specification for all the works in respect of the houses and Form of Tender, drawings and specification in respect of the garages may be obtained from the Engineer and Surveyor, Council Offices, Esher, on payment of a deposit of two guineas for each Contract which will be refunded on receipt of a bona fide tender, together with the return of all documents in good condition.

Tender on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. . . .", and bearing no name or mark indicating the sender, must be addressed to and received by the undersigned not later than 5 p.m. FRIDAY, 26th JUNE, 1959.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher,
Surrey.

HENLEY - ON - THAMES BOROUGH COUNCIL.

WATERMAN'S ALLOTMENTS SITE, READING-ROAD, HENLEY-ON-THAMES. SECOND DEVELOPMENT.

TENDERS are invited for the ERECTION OF 18 DWELLINGS OF TRADITIONAL CONSTRUCTION, CONSISTING OF 2 BLOCKS OF TYPE "A," EACH BLOCK COMPRISING 4 FLATS, AND 5 PAIRS OF TYPE "D" BEING 2-BEDROOM HOUSES.

Bills of Quantities and Forms of Tender may be obtained from the Council's Architect, Eric G. V. Hives, L.R.I.B.A., 46 Queen's-road, Reading, on payment of a deposit of £2 2s. 0d. (Two Guineas), which will be returned after delivery of a complete and bona fide tender (providing such tender is not withdrawn) and the return of all documents in the manner and at the time stated.

Tenders, enclosed in plain sealed envelopes endorsed "Waterman's Estate," must be delivered to the undersigned not later than 12 noon on THURSDAY, the 18th JUNE, 1959.

The Council does not bind itself to accept the lowest or any tender.

G. CALDECOTT,
Town Clerk.

Council Offices,
Henley-on-Thames,
Oxon.

WYCOMBE RURAL DISTRICT COUNCIL.

TENDERS.

TENDERS are invited from reputable builders for the following work:—

(a) REBUILDING AND/OR REPOINTING OF CHIMNEY STACKS OF 180 PROPERTIES.

(b) REPOINTING OF EXTERNAL WALLS OF 4 HOUSES at Winchbottom, and PROVISION OF CONCRETE FOOTPATHS.

(c) REROOFING OF 8 HOUSES at Ditchfield, Lane End.

Specifications and Forms of Tender can be obtained from the Council's Housing Manager, 28 High-street, High Wycombe.

Tenders must be returned sealed in the official envelopes provided in order that they reach the undersigned by first post on SATURDAY, the 13th JUNE, 1959.

L. C. RYSDALE,
Clerk of the Council.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The Corporation is prepared to receive TENDERS for :

RE-ROOFING AND ALTERATIONS IN THE WASHHOUSE, ETC., AT BENWELL BATHS, BOND-STREET, NEWCASTLE UPON TYNE.

Contractors desirous of tendering for this work are requested to send their names in to the City Estate and Property Surveyor, Town Hall, Newcastle upon Tyne, 1, not later than 30th MAY, 1959.

No tender will be received except in the official envelope provided for that purpose and such envelope shall not bear any mark indicating the sender.

Sealed tenders to be sent in on or before 10 a.m., on 18th JUNE, 1959.

The Corporation does not bind itself to accept the lowest or any tender.

By Order,
JOHN ATKINSON,
Town Clerk.

NORFOLK EDUCATION COMMITTEE.

SWAFFHAM COUNTY BRANCH LIBRARY.

Builders wishing their names to be considered for inclusion in a selected panel of Tenderers for the ERECTION OF A COUNTY BRANCH LIBRARY at Swaffham (floor area 1,800 square feet approx.) should submit their names to the undersigned by 10th JUNE.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Office,
Stracey-road,
Norwich.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for the following works :—

1. REORGANISATION OF THE HOUSECRAFT ROOMS at Stanley Secondary School.

2. PROVISION AND INSTALLATION OF SANITARY EQUIPMENT TO THE KITCHEN AND TOILETS in the new Temporary Buildings, together with all WATER SERVICES, and for the INSTALLATION OF COOKING EQUIPMENT and ANCILLARY WORKS at Penistone Grammar School.

3. REMODELLING OF THREE HOUSECRAFT ROOMS at Goole Girls' Secondary School.

Plans and Specifications for Contract No. 1 are now available for inspection at the Office of the County Architect, Bishopgarth, Westfield-road, Wakefield, and for Contract No. 2 at the Office of the Divisional Architect, Flint-street, Huddersfield, and for Contract No. 3 at the Office of the Divisional Architect, Planet-road, Adwick-le-Street, Doncaster.

Applications to Tender for Contract No. 1 must be addressed to the County Architect at Wakefield, and for Contract No. 2 to the Divisional Architect at Huddersfield, and for Contract No. 3 to the Divisional Architect at Doncaster. All applications must be received in their respective Offices not later than the 15th JUNE, 1959; the relevant documents will be despatched that day.

The Contracts will be under the Provisions of the R.I.B.A. Conditions and Form of Agreement where Bills of Quantities do not form part of the Contract.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 3, County Hall, Wakefield, not later than 12 NOON on the 29th JUNE, 1959.

BERNARD KENYON,
Clerk of the County Council.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The Corporation is prepared to receive TENDERS for :

PROVISION OF WASHING MACHINES AND HYDRO EXTRACTORS, BENWELL BATHS, BOND-STREET, NEWCASTLE UPON TYNE.

Contractors desirous of tendering for this work are requested to send their names in to the City Estate and Property Surveyor, Town Hall, Newcastle upon Tyne, 1, not later than 30th MAY, 1959.

No tender will be received except in the official envelope provided for that purpose and such envelope shall not bear any mark indicating the sender.

Sealed tenders to be sent in on or before 10 a.m. on 18th JUNE, 1959.

The Corporation does not bind itself to accept the lowest or any tender.

By Order,
JOHN ATKINSON,
Town Clerk.

BOROUGH OF LUTON.

Building Contractors wishing to submit FIXED PRICE TENDERS for ERECTION OF 19 SHOPS WITH MAISONETTES OVER together with GARAGES and ancillary works at Whipperley Ring on the Farley-hill Housing Estate should submit their names to the Borough Architect, Town Hall, Luton, by NOON on FRIDAY, the 19th JUNE, 1959.

BOROUGH OF LEWES.

TENDERS FOR BUILDING WORKS.

The Council propose to invite FIXED PRICE TENDERS for the following works:—

(a) CONSTRUCTION of a TRADITIONAL BLOCK OF EIGHT GARAGES including concrete apron, drainage, etc., at Landport-road.

(b) CONSTRUCTION of a BLOCK OF PRE-CAST CONCRETE GARAGES including concrete base, apron, drainage, etc., at The Lynchets.

(c) CONSTRUCTION of TWO BLOCKS OF PRE-CAST CONCRETE GARAGES (one block of nine garages and the other of ten) including concrete bases, tarmacadam apron, drainage, etc., off Queens-road.

Applications for the Forms of Tender, Specifications and Conditions of Contract must be submitted to the Borough Engineer and Surveyor, Town Hall, Fisher-street, Lewes, not later than FRIDAY, 5th JUNE, 1959. The Contractor must make a **separate application for each part.**

The Council do not bind themselves to accept the lowest or any tender. The acceptance of any tender will be subject to the approval of the Minister of Housing and Local Government.

R. A. B. GRAY,
Town Clerk.

Town Hall,
Lewes,
Sussex.

THE CITY AND COUNTY OF THE CITY OF LINCOLN.

PRINCESS-STREET RE-DEVELOPMENT AREA.

PROPOSED ERECTION OF 64 FLATS, 14 BUNGALOWS AND 29 GARAGES.

Fixed price TENDERS are invited for the ERECTION of ONE-BEDROOM FLATS IN TWO STOREYS, OLD PEOPLE'S BUNGALOWS AND LOCK-UP GARAGES.

The construction is to be load bearing cavity walls with pitched roofs and interlocking tiles.

Plans and Conditions of Contract may be examined at, and Bills of Quantities, explanatory drawing and Form of Tender obtained (after 4th JUNE, 1959) from the City Architect, R. R. Alexander, F.R.I.B.A., M.T.P.I., Stamp End, Lincoln, on payment of a deposit of two guineas (cheques made payable to the Lincoln Corporation) which will be refunded on receipt of a bona fide tender including relevant documents.

Tenders on the prescribed form, in the plain envelope supplied, bearing no name or mark indicating the sender must be delivered, sealed, to the undersigned, not later than 10 a.m. on the 26th JUNE, 1959, endorsed "Tender for 74 dwellings and 29 garages, Princess-street Redevelopment Area."

The Council do not bind themselves to accept the lowest or any tender.

J. HARPER SMITH,
Town Clerk.

Town Clerk's Office,
Saltergate,
Lincoln.
May, 1959.

CITY OF BATH.

CORPORATE PROPERTY COMMITTEE.

TENDERS are invited for the proposed CONVERSION of the FIRST AND SECOND FLOORS into SELF-CONTAINED FLATS at No. 17 Paragon, Bath.

Copies of the Specification and drawing may be obtained from the Surveyor of Corporate Property, Guildhall, Bath, on payment of £2 2s. 0d. deposit which will be refunded on receipt of a bona fide tender not subsequently withdrawn.

Tenders to be returned to the undersigned not later than WEDNESDAY, 17th JUNE, 1959, in the special envelope provided.

The Corporation do not undertake to accept the lowest or any tender.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.
15th May, 1959.

BOROUGH OF ILFORD.

ALTERATIONS TO GEARIES SECONDARY BOYS' SCHOOL.

TENDERS are invited for alteration works at Gearies Secondary Boys' School, Perrymans Farm-road, Newbury Park.

Applications in writing for the Form of Tender, Bills of Quantities and Drawings should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Bills of Quantities, etc., will be despatched on or about the 6th June, 1959, and Tenders sealed in an envelope bearing the word "Tender" followed by the subject to which it relates with no mark of identification as to the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on 23rd JUNE, 1959.

Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

BOROUGH OF ILFORD.

ALTERATIONS TO FAIRLOP SECONDARY GIRLS' SCHOOL.

TENDERS are invited for alteration works at Fairlop Secondary Girls' School, Fencepiece-road, Barkingside.

Applications in writing for the Form of Tender, Bills of Quantities and Drawings should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's office during normal working hours.

Bills of Quantities, etc., will be despatched on or about the 2nd June, 1959, and Tenders sealed in an envelope bearing the word "Tender" followed by the subject to which it relates with no mark of identification as to the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on 23rd JUNE, 1959.

Priced Bills of Quantities must be returned at the same time as the Tender, in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

BOROUGH OF WEYMOUTH AND MELCOMBE REGIS.

The Corporation propose to invite TENDERS for the ERECTION OF 46 DWELLINGS IN 7 THREE-STOREY BLOCKS OF FLATS, MAISONETTES AND HOUSES at Chickerell-road, Weymouth, and are preparing a list of selected contractors.

Contractors desirous of being included in this list are invited to apply to the Borough Engineer, 6 Pulteney Buildings, Weymouth, not later than WEDNESDAY, 10th JUNE, 1959.

E. J. JONES,
Town Clerk.

Town Clerk's Office,
Weymouth.
May, 1959.

HAVERHILL URBAN DISTRICT COUNCIL.

TENDERS are invited for the ERECTION OF OFFICES AND FACTORY EXTENSIONS at Haverhill consisting of a total floor space of 8,190 ft. super with access road and services.

Bills of Quantities and form of tender obtainable from Mr. J. C. Myers, L.R.I.B.A., High-street, Haverhill from 25th May.

Tenders, in sealed envelopes endorsed "Factory Extension" must reach me by 15th JUNE, 1959. The Council does not bind itself to accept the lowest or any tender.

W. C. BLAKE,
Clerk of the Council.

Council Offices,
Haverhill.
21st May, 1959.

BOROUGH OF EALING.

TENDERS are invited for the ERECTION of a DEPOT, RENT OFFICE, etc., at Northolt Park.

Tender documents obtainable from Borough Surveyor, Town Hall, Ealing, W.5, upon payment of £5 0s. 0d. returnable on receipt of a bona fide tender.

Tenders must be delivered to the Town Clerk, Town Hall, Ealing, W.5, not later than 9.30 a.m. on the 25th JUNE, 1959.

E. J. COPE-BROWN,
Town Clerk.

CITY OF SALFORD.

PROPOSED ALTERATIONS TO FREDERICK-ROAD BUS DEPOT TO PROVIDE ACCOMMODATION FOR ANCILLARY VEHICLES, Etc., SALFORD, 6.

FIRM PRICE TENDERS are invited for the proposed ALTERATIONS TO FREDERICK-ROAD BUS DEPOT TO PROVIDE ACCOMMODATION FOR ANCILLARY VEHICLES, etc., Salford, 6.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm-Price Tender obtained from, the City Engineer and Surveyor's Dept., Town Hall, Salford, 3, on payment of a deposit of £3 3s. 0d. which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on WEDNESDAY, 1st JULY, 1959.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

CITY OF SALFORD.

128 (4-STOREY) MAISONETTES, CLEMINSON-STREET, SALFORD, 3. TRINITY CLEARANCE AREAS No. 1 (part 4b) and 5.

TO PAINTING CONTRACTORS.

FIRM PRICE TENDERS are invited for the PAINTING AND DECORATING OF 128 MAISONETTES IN THIRTEEN 4-STOREY BLOCKS, which the Council propose to erect under separate contract for the general building works, at Cleminson-street site, Salford, 3.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm Price Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford 3, on payment of a deposit of £2 2s. 0d., which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on WEDNESDAY, 1st JULY, 1959.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

TONBRIDGE RURAL DISTRICT COUNCIL.

HEATING AND PLUMBING.

FIXED-PRICE TENDERS are invited for the INSTALLATION OF A CENTRAL HEATING SYSTEM AND WATER SUPPLY in 29 FLATS at Pembury.

Specifications and forms of tender may be obtained from the Engineer and Surveyor at the undermentioned address. Sealed tenders, endorsed "Tender for Central Heating," must be received by me not later than WEDNESDAY, 10th JUNE, 1959.

The Council do not bind themselves to accept the lowest or any tender.

C. KIRBY,
Clerk of the Council.

48 Pembury-road,
Tonbridge.
20th May, 1959.

ISLE OF WIGHT COUNTY COUNCIL.

NEWPORT PRIORY SECONDARY GIRLS' SCHOOL.

Fixed price TENDERS invited for ALTERATIONS AND EXTENSIONS to existing premises at Nodehill, Newport, I.W. New work to include Assembly Hall, Kitchen and other ancillary accommodation, including complete new heating and electrical installations, having a floor area of approximately 8,250 feet super.

Applications for Bills of Quantities should be made to the County Architect, County Hall, Newport, I.W., not later than Monday, 8th June, 1959, accompanied by a deposit of three guineas made payable to the Isle of Wight County Council and returnable upon receipt of a bona fide Tender.

Working drawings may be inspected at the above office during usual working hours.

Tenders prepared in accordance with the instructions must reach the Clerk of the County Council, County Hall, Newport, I.W., not later than 10 a.m., on MONDAY, the 13th JULY, 1959.

BOROUGH OF WARWICK.

SALTISFORD COMMON DEVELOPMENT.

ERECTION OF DWELLINGS AND COMMUNITY HALL.

TENDERS are invited for the CONSTRUCTION of:—

26 OLD PEOPLE'S BED SITTING-ROOM UNITS.
6 TWO-STOREY SINGLE-BEDROOM UNITS.
10 TWO-STOREY 2- AND 3-BEDROOM UNITS.
WARDEN'S 3-BEDROOM BUNGALOW;
And a COMMUNITY HALL WITH ANCILLARY ACCOMMODATION.

Copies of the Bill of Quantities, General Conditions and Form of Tender may be obtained from the undersigned on payment of £2 2s. deposit, which will be refunded upon receipt of a bona fide tender. Drawings may be seen at this Office during normal working hours.

Tenders in plain sealed envelope endorsed "Saltisford Common Development," must reach the undersigned not later than first post on SATURDAY, the 20th JUNE, 1959.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.

23 Jury-street,
Warwick.
14th May, 1959.

EAST SUFFOLK COUNTY COUNCIL.

LOWESTOFT COLLEGE FOR FURTHER EDUCATION—SECOND INSTALMENT.

The Council propose to invite TENDERS from selected builders, for the ERECTION OF THE SECOND INSTALMENT totalling 17,000 square feet, together with sundry works in the existing building.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, or at the Borough Offices, High-street, Lowestoft, between 9 a.m. and 5 p.m.

Building Contractors wishing to be considered should submit their names to the County Architect, County Hall, Ipswich, before the 5th June, 1959. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 12th June, 1959; builders not selected will be notified at the same time. Tenders are required by the 9th JULY, 1959.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

SPORTS PAVILION, MOTTINGHAM.

TENDERS invited for the ERECTION OF TRADITIONAL BRICK-BUILT SPORTS PAVILION AND PUBLIC CONVENIENCES, of approximately 3,400 ft. super, at Mottingham Sports Ground.

Contractors wishing to Tender should apply before 10th JUNE, 1959, to the Engineer and Surveyor, Manor House, Sidcup, Kent, enclosing deposit of £3 3s. 0d. which will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

Bills of Quantities and Tender documents will be despatched and closing date for receipt of Tenders announced at an early date following receipt of applications.

T. W. FAGG,
Clerk of the Council.

Council Offices,
Sidcup-place,
Sidcup, Kent.

HUYTON - WITH - ROBY URBAN DISTRICT COUNCIL.

ERECTION OF SHOPS, FLATS AND MAISONETTES.

FIXED PRICE TENDERS are invited for the ERECTION OF ELEVEN SHOPS, SEVEN 3-BEDROOMED MAISONETTES and FOUR 1-BEDROOMED FLATS IN ONE 3-STORIED BLOCK, together with ancillary external works, on the St. John's-road (East) Estate.

Contractors wishing to tender should apply to the Architect and Housing Director, "Grasscroft," Archway-road, Huyton, not later than 12th JUNE, 1959.

D. WILLGOOSE,
Clerk of the Council.

Council Offices,
Derby-road,
Huyton, Lancs.

COUNTY BOROUGH OF MIDDLESBROUGH.

IMPROVEMENT TO OLDER TYPE HOUSES.

TENDERS are invited for carrying out the following building works:—

(i) 16 Houses Severs-street West Side: ALTERATIONS INVOLVING A TWO-STOREY ADDITION TO EACH.

(ii) 14 Houses Severs-street East Side: ALTERATIONS INVOLVING SINGLE-STOREY BATHROOM EXTENSION TO EACH.

Specification and drawings from Borough Engineer. Deposit £2 2s. 0d. Tenders to be received by Town Clerk on or before MONDAY, 22nd JUNE, 1959.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED EXTENSION TO:—

NONSUCH COUNTY SCHOOL FOR GIRLS, EWELL-ROAD, CHEAM.

The work consists of the ERECTION IN PERMANENT CONSTRUCTION OF A TWO STOREY LABORATORY AND LIBRARY WING and an addition over part of the existing school.

Contractors wishing to tender should apply to the County Architect, County Hall, Kingston-upon-Thames, by 5th JUNE, 1959.

BOROUGH OF MALDEN AND COOMBE.

HOUSING SITE 79.

LAND ADJACENT TO 20 PRESBURG-ROAD.

ERECTION OF THREE PAIRS OF SEMI-DETACHED HOUSES, AND THREE PAIRS OF SEMI-DETACHED BUNGALOWS.

Contractors desirous of TENDERING for the above-mentioned works are invited to submit their names within fourteen days of the appearance of this advertisement to John Apse, A.M.I.C.E., Borough Engineer and Surveyor, Municipal Offices, New Malden, Surrey.

From the names submitted a panel of contractors will be selected to whom tender documents will be sent in due course.

HAROLD E. BARRETT,
Town Clerk.

Municipal Offices,
New Malden,
Surrey.

URBAN DISTRICT COUNCIL OF WELLINGBOROUGH.

ERECTION OF FLATS AND HOUSES.

TENDERS are invited on a fixed price basis for the ERECTION OF 12 ONE-BEDROOM FLATS IN TWO THREE-STOREY BLOCKS, TWO PAIRS OF TWO-BEDROOM HOUSES AND ROADWORKS at Abbots-row, Wellingborough.

Building contractors desirous of Tendering should apply to Mr. R. Kilby, M.I.Mun.E., Engineer and Surveyor, Council Offices, Swanspool, Wellingborough. All applications must be accompanied by a deposit of £2 2s. 0d. to be returned on receipt of a bona fide Tender.

Tenders must be submitted in the envelopes provided so as to reach me not later than 12 NOON on MONDAY, 22nd JUNE, 1959.

Subcontractors interested in quoting for the electrical installation should send their names to the Engineer and Surveyor.

The Council does not bind itself to accept the lowest or any Tender.

W. G. PALMER,
Clerk of the Council.

Council Offices,
Swanspool,
Wellingborough.
25th May, 1959.

EAST SUFFOLK COUNTY COUNCIL.

LOTHINGLAND S.M. SCHOOL—TEMPORARY ACCOMMODATION.

Building Contractors are invited to TENDER for this project which involves TAKING DOWN FOUR TIMBER CLASSROOMS (totalling 120 ft. x 24 ft.) at Halesworth for TRANSPORTING TO AND ERECTING at Lound Hall, near Lowestoft, together with MINOR ALTERATIONS TO THE EXISTING BUILDINGS and the PROVISION OF TEMPORARY LAVATORY FACILITIES.

Applications to the County Architect, Mr. E. J. Cundliffe, A.R.I.B.A., County Hall, Ipswich, before the 3rd JUNE, 1959; each must be accompanied by a deposit of £2 2s. 0d. (cheques payable to the East Suffolk County Council), returnable on receipt of tender.

Specifications and drawings will be sent out on 5th June for tenders required by the 30th JUNE, 1959.

BOROUGH OF ILFORD.

CONVERSION OF 24 EMPRESS-AVENUE, ILFORD.

TENDERS are invited for the CONVERSION OF THE ABOVE PROPERTY INTO FIVE NO. BED-SITTING ROOM UNITS.

Applications in writing for the form of Tender, Specification and Drawings, should be sent to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s. 0d. which will be returned on receipt of a bona fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's office during normal working hours.

Tenders, in plain sealed envelopes endorsed "Tender for Conversion of 24 Empress-avenue," but bearing no name or mark indicating the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 23rd JUNE, 1959.

modern FLOORING

• with limitless opportunity for design

AMONG those concerned with flooring problems many have come to the conclusion that "Semastic" or "Vinylex" tiles are the most practical and economical solution to covering sub-floors in industrial or commercial premises, in public buildings, and often in private homes, whether over new floors or to make old floors like new.

Tiles by Semtex provide ample opportunity for attractive designs, as the examples here show. They are quick to lay and immediately ready for use. This apart from other "user" considerations, such as the economy of longer wear; easy cleaning and maintenance; quiet comfortable walking surfaces.

Semtex, with over 25 branches, provides a complete laying service throughout the United Kingdom, including technical and design advice. There are also independent approved laying facilities in the majority of the principal towns. For full information write or telephone to the address below.

Semastic *Decorative and* **Vinylex** *Floor Tiles are among the range produced by*

Semtex

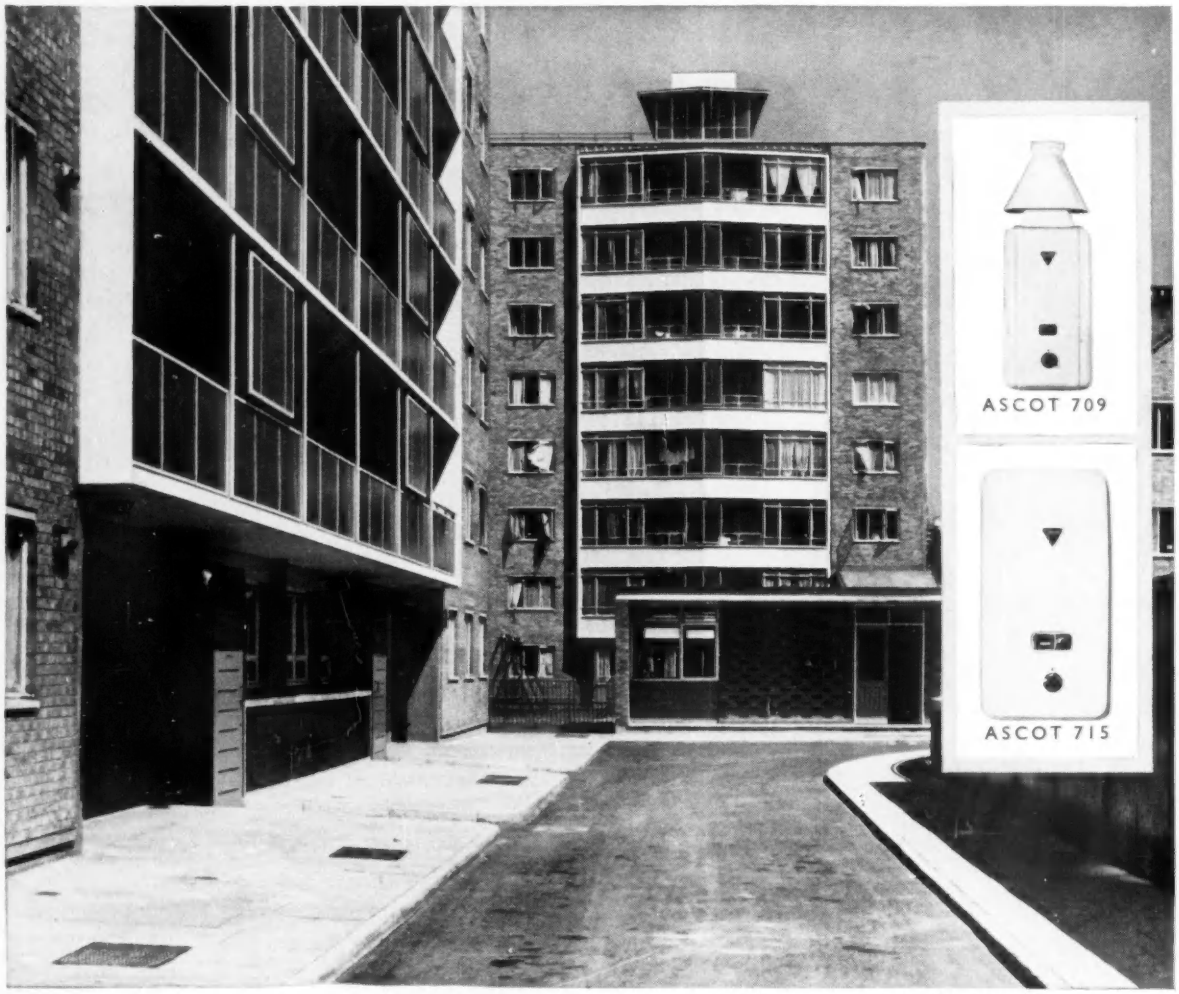
• THE COMPREHENSIVE FLOORING SERVICE

SEMTEX LTD. *A Dunlop Company*, SEMTEX HOUSE, 19-20 BERNERS STREET, W.1 *Tel. LANgham 0401*

BOTH PRACTICAL AND DECORATIVE...

The examples above show that Semtex flooring has been accepted as the most practical and decorative solution to flooring problems—(left) Dunlop Rubber Flooring at Tilbury Passenger Terminal —(right) Vinyl ex Tiles in a continental showroom.

85E/54

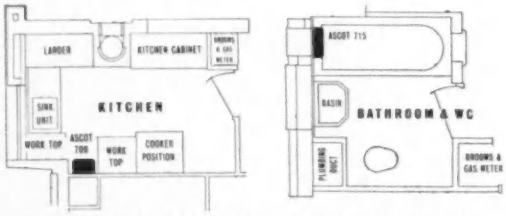


Caroline Estate extension, Hammersmith

ASCOT IN NEW HOUSING (9)

Ascot instantaneous Gas Water heaters have been extensively used for providing hot water in dwellings comprising the London County Council's new Caroline Estate extension at Hammersmith, photographed above. In the eight-storey block, Joanna House, Ascot multipoints have been installed in the 30 three-room and two two-room flats. In the ten-storey block, Henrietta House, Ascot 715 'balanced flue' multipoints are provided in 20 three-room and 18 two-room flats. For technical reasons, an alternative water heating system was necessary in two two-room flats on the ground floor of this block.

In all other maisonettes and flats on the Estate, back boilers have been provided for hot water, except in six maisonettes. Here, Ascot 715 multipoints are installed to obviate difficulties which would have otherwise resulted from having flues for solid fuel fires situated near the ten-storey block.



Two typical installations of Ascot Multipoints in a kitchen and a bathroom in flats on the Estate.

RESPONSIBLE AUTHORITY

London County Council
Architects: Edward Armstrong & Frederick MacManus, F.R.I.B.A., Chartered Architects,
28, Gloucester Place, London, W.1

REGD. TRADE MARK
ASCOT

ASCOT GAS WATER HEATERS LTD · 255 NORTH CIRCULAR ROAD · LONDON · N.W.10

WHG.A379

EAST SUFFOLK COUNTY COUNCIL.

ALTERATIONS AND ADDITIONS TO "CLONCURRY," FELIXSTOWE.

The Council propose to invite TENDERS from selected builders for EXTENSIONS totalling 3,000 square feet and ALTERATIONS TO THE EXISTING HOME FOR OLD PEOPLE.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9 a.m. and 5 p.m.

Building Contractors wishing to be considered should submit their names to the County Architect, County Hall, Ipswich, before the 5th June, 1959. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 12th June, 1959; builders not selected will be notified at the same time. Tenders are required by the 3rd JULY, 1959.

COUNTY BOROUGH OF BRIGHTON.

FIXED PRICE TENDERS are invited for:—

THE SITE PREPARATION AND ERECTION OF 44 PREFABRICATED GARAGES at Lower Bevendean Estate.

Specification, Plans and Form of Tender may be obtained from the Borough Surveyor, Engineer and Planning Officer, 26-30 King's-road, Brighton, on or after MONDAY, 1st JUNE, 1959, on receipt of a returnable deposit of £2 2s. 0d.

Tenders are to be delivered to the Town Clerk in the plain sealed envelope provided, not bearing any name or mark indicating the sender, not later than noon on MONDAY, 29th JUNE, 1959.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton, 1.

COUNTY COUNCIL OF ESSEX.

(1) DAGENHAM RUSH GREEN COLLEGE OF FURTHER EDUCATION.
(2) ELMBRIDGE COUNTY SECONDARY BOARDING SCHOOL, CRANLEIGH, SURREY.
MAJOR EXTENSIONS

Contractors wishing to tender for the above should forward their names, from which panels will be chosen and provided with Bills of Quantities.

(1) The work consists of a three-storey block with an in situ reinforced concrete frame and floors and with stone and brick infillings, and a small area of single-storey steel framed workshops. The total cost is about £210,000. Bills of Quantities are expected to be available about the middle of July, 1959. Only contractors with an extensive experience of reinforced concrete work should apply.

(2) The contract will comprise the construction of foundations, plumbing, drainage, finishings, external works, etc., in connection with the erection of a single storey practical block and Headmaster's House in timber construction, which will be supplied and erected by nominated sub-contractors. Also the renewal of heating, hot water, electrical installation and drainage, etc., in existing building. The approximate value of the contract is £61,800. The private architects for this school are Scott, Brownrigg & Turner, London-road, Guildford.

Separate applications to reach the undersigned not later than 6th JUNE, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

WOKING U. D. C.

HOUSING CONTRACTS—FOUR FLATS AND FOUR MAISONETTES, BOARD SCHOOL-ROAD, 10 BUNGALOWS, WELL-LANE.

Applications invited from Building Contractors for Bills of Quantities. To be submitted to Engineer and Surveyor by SATURDAY, 13th JUNE, 1959, accompanied by deposit of two guineas, refundable in respect of bona fide Tender, not subsequently withdrawn.

Date for submission of Tenders given when Bills sent out.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the following works:—

ERECTION OF A SINGLE-STOREY HEALTH SERVICE CLINIC AT COTTINGHAM, NEAR HULL.

ERECTION OF TWO HOUSES ON THE SITE OF THE PROPOSED COUNTY SECONDARY SCHOOL AT BARLBY, NEAR SELBY.

Application for Bills of Quantities should be made to the County Architect, County Hall, Beverley, and should be accompanied by a deposit of £2 in each case. Cheques to be made payable to the County Treasurer.

It is anticipated that tender documents will be available on the 8th JUNE, 1959.

No tender will be considered unless received by the undersigned in a plain sealed envelope supplied by the Council bearing no name or mark indicating the sender, not later than 4 p.m. on WEDNESDAY, 1st JULY, 1959 (Clinic), or 4 p.m. on MONDAY, 6th JULY, 1959 (Houses). Envelopes should be endorsed "Tender: Erection of Clinic, Cottingham" or "Tender: Erection of Houses, Barlby" as the case may be.

THOMAS STEPHENSON,
Clerk of the Council.

METROPOLITAN BOROUGH OF WANDSWORTH.

HOUSES AT CLAPHAM.

Contractors wishing to tender for ERECTION OF FOUR HOUSES at Stonhouse-street should submit names to me by WEDNESDAY, 10th JUNE, 1959, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at office of Borough Engineer and Architect, Municipal Buildings, S.W.18.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

COUNTY BOROUGH OF WOLVERHAMPTON.

EDUCATION COMMITTEE.

EXTENSIONS TO HIGHFIELDS SECONDARY SCHOOL.

Applications are invited from Building Contractors wishing to tender for the ERECTION OF AN EXTENSION TO THE HIGHFIELDS SECONDARY SCHOOL, comprising Laboratories and Classrooms in one block adjacent to the existing buildings.

Forms of Tender and Bills of Quantities will be forwarded after receipt of a written application to the Borough Engineer, Town Hall, Wolverhampton, not later than WEDNESDAY, 10th JUNE, accompanied by a deposit of £2 2s 0d. which will be returned upon receipt of a bona fide tender. The date for submission of tenders will be notified when Bills of Quantities are forwarded.

NEWMARKET URBAN DISTRICT COUNCIL.

TENDERS.

46 HOUSES IN WINDSOR-ROAD.

TENDERS are invited for the ERECTION OF THE ABOVE to be built in Traditional Construction on a site on the Houldsworth Valley Estate.

The work to be carried out includes the whole of the site preparations, pavings, drainage and services.

Applications, accompanied by a deposit of £2 2s. 0d., which will be refunded on receipt of a bona fide Tender and/or the return of all documents, should be addressed to the Architect, P. D. Lees, L.R.I.B.A., at the Council Offices, Severals House, Newmarket (where Drawings and Conditions of Contract may be inspected during normal office hours), and Tenders are to be delivered to the undersigned on a date to be notified when the documents are despatched.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN CRABB,
Clerk of the Council.

Severals House,
Newmarket.

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

PUBLIC APPOINTMENTS

SOUTH CAMBRIDGESHIRE RURAL DISTRICT COUNCIL.

ASSISTANT ARCHITECT.

Applications are invited for the above appointment in the Department of the Architect and Surveyor.

Salary A.P.T. II (£765-£880) or Special Grade (£785-£1,070) according to qualification and experience.

Housing accommodation available if required.

Application, with usual particulars and names of two referees, to reach the undersigned not later than 12th JUNE, 1959.

F. H. M. SARGENT,
Clerk of the Council.

County Hall,
Hobson-street,
Cambridge.

KESTEVEN COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

CLERK OF WORKS.
A.P.T. GRADE II (£765-£880).

Full particulars of the above vacant appointment may be obtained from the County Architect, County Offices, Sleaford, Lincs.

Applications from suitably qualified persons, together with the names and addresses of two referees, should be received by the undersigned not later than the 15th JUNE, 1959.

J. E. BLOW,
Clerk of the County Council.

County Offices,
Sleaford,
Lincs.

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT BUILDING MAINTENANCE SURVEYOR at a salary in accordance with Grade I, A.P.T. Division (£610 x four annual increments of £30 and one of £35 to £765 per annum) of the National Scales of Salaries. Commencing salary according to experience.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than 12th JUNE, 1959.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.
22nd May, 1959.

QUANTITY SURVEYING

ASSISTANTS required by Air Ministry in the Provinces. Duties include abstracting and billing, site measurement and preparation of estimates. Commencing salary according to age, qualifications and experience. Salary ranges from £680 at age 26 rising to £850. Candidates must hold O.N.C. (Building or Builders' Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Approved full time study will count towards period of experience. Promotion and pensionable prospects. 5-day week, 3 weeks' leave a year. Appointments carry liability for service anywhere U.K. or overseas. Applicants normally should be natural born British subjects. Write, stating age, qualifications and previous appointments including type of work done, to Manager, Professional and Executive Register, Ministry of Labour and National Service, Atlantic House, Farringdon-street, London, E.C.4, quoting reference PE105/745. No original testimonials should be sent. Only applicants selected for interview will be advised.

LONDON COUNTY COUNCIL.

TECHNICAL ASSISTANTS required in Quantities Division for (a) measuring variations on small buildings, landscape and site works and preparation and settlement of final accounts; knowledge of approximate estimating an advantage. (b) Working-up and site measurement under supervision. Up to £860 a year, commencing according to qualifications and experience. Apply to Chief Officer, Parks Department (AI/E), County Hall, London, S.E.1. (WATerloo 5000 Ext. 8076.) (850.)

CORPORATION OF THE CITY OF ABERDEEN.

CITY ARCHITECT'S DEPARTMENT.

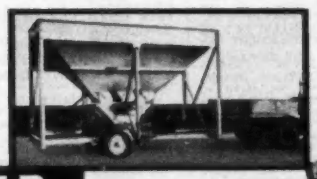
Applications are invited for the following post of TEMPORARY ASSISTANT ARCHITECT on a fixed salary of £1,250 per annum. Applicants should be A.R.I.B.A., fully experienced, with sound knowledge of construction, capable of producing good contemporary design and of carrying large contracts through to completion.

Applications stating name, address, age, qualifications, experience, previous and present appointments held, and the names and addresses of three Architects to whom reference may be made, should be sent to G. McI. Keith, A.R.I.B.A., A.M.T.P.I., City Architect, 11 Broad-street, Aberdeen, on or before 5th JUNE, 1959.

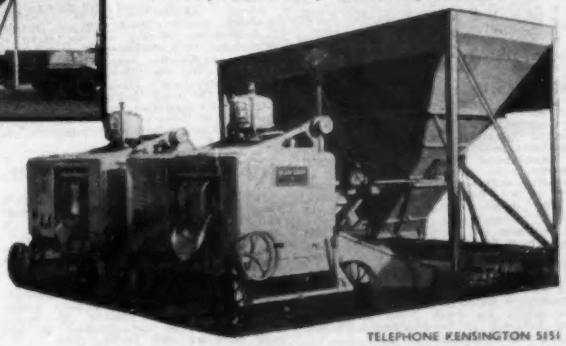
J. C. RENNIE,
Town Clerk.

Town House,
Aberdeen.
21st May, 1959.

Better proportioned and cheaper concrete



SPEED, ACCURACY, ECONOMY, MOBILITY



BATCHMASTER

The fully-mobile **BATCHMASTER** will maintain aggregate supply to 7S, 10S, 12S or 14S Mixers working singly or in pairs. Its low height facilitates loading by tractor shovel; hydraulic weighing assures accurate proportioning; and units can be supplied with built-in bulk cement bin. Needs one man only to maintain maximum output from mixers. *Write for publication No. 267*

BLAW KNOX LTD Box No 113 90/94 Brompton Road London SW3

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BK 552

AIR MINISTRY WORKS

Design Branch requires in London and Provinces ARCHITECTURAL ASSISTANTS, experienced in planning/preparation of working drawings and details for permanent and semi-permanent buildings. Salaries in LONDON, up to £1,055 p.a. for men and £1,008 p.a. for women. Somewhat lower in Provinces. Starting pay dependent on age, qualifications and experience. Long-term possibilities with promotion and pensionable prospects. Five-day week, 3 weeks' 3 days' leave a year. Liability for overseas service (for men). Normally natural born British subjects.—Write stating age, qualifications, employment details including type of work done, to any Employment Exchange quoting Order No. Borough 250.

ROYAL BOROUGH OF KINGSTON-UPON-THAMES.

APPOINTMENT OF SECOND ARCHITECTURAL ASSISTANT. SPECIAL SCALE, £785 TO £1,070.

Commencing at not less than £905 per annum plus London Weighting. Applicants must be qualified and have had at least five years' experience, including periods spent on theoretical training. Details and application form from Borough Surveyor, Guildhall, Kingston-upon-Thames. Closing date 22nd JUNE, 1959.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
21st May, 1959.

BOROUGH OF AYLESBURY.

The Aylesbury Borough Council invite applications for the appointment of a CLERK OF WORKS (HOUSING). Salary within Miscellaneous Grade VI (£715-£775 p.a.). Further particulars from the undersigned, to whom applications should be sent by 8th JUNE, 1959.

R. D. W. MAXWELL,
Town Clerk.

Town Hall,
Aylesbury.
29th May, 1959.

BOROUGH OF CHATHAM.

BUILDING INSPECTOR.

Applications are invited for the above appointment in the Engineer and Surveyor's Department at a salary within Grade A.P.T. II (£765-£880 per annum) of the National Scales

Candidates must have a thorough knowledge of Building Construction, Building By-laws, the sections of Public Health Acts relating to new buildings, drainage, etc., general development control under the Town and Country Planning Act, 1947, the Petroleum and Cinematograph Acts, Section 34 of the Factories Act 1937 and improvement grants. Previous experience in this section of an Engineer and Surveyor's office is essential. Preference given to candidates holding Building Inspector's Certificate of the Institution of Municipal Engineers or equivalent qualifications.

Housing accommodation will be provided if necessary.

The appointment will be

(a) in accordance with the National Scheme of Conditions of Service;

(b) terminable by one month's notice on either side;

(c) superannuable, subject to satisfactory medical report.

In accordance with their usual practice, the Council will require the successful candidate to give an undertaking to remain in the Council's service for two years.

Applications, stating age, qualifications, experience and the names of two referees, must be received by the Borough Engineer and Surveyor, Town Hall, Chatham, not later than 15th JUNE, 1959.

ROWLAND NEWNES,
Town Clerk.

GOVERNMENT OF NORTHERN IRELAND.

(A) ASSISTANT ARCHITECT, CLASS II.

(B) ARCHITECTURAL ASSISTANT.

Applications invited for above posts in Chief Architect's Branch, Ministry of Finance. Posts (A) are pensionable and candidates must be Registered Architects by examination with at least two years' experience in an Architect's Office in preparing working drawings. Salary scale £805 (at age 25)-£1,095 (age 34 and over)-£1,260. Existing pension rights may, in certain circumstances, be transferred.

Candidates for unestablished posts (B) should have recognised architectural training and fair experience. Salary scale £585-£905; appointees who have passed R.I.B.A. Intermediate examination start at £730.

Preference for ex-Service men. Application forms for both posts obtainable from Director of Establishments, Room 271, Stormont, Belfast.

CITY AND COUNTY OF BRISTOL.

ARCHITECTS' COMMITTEE.

Applications invited for following permanent Staff appointments:—

(a) SENIOR QUANTITY SURVEYORS Special Scale £750 x £40-£1,030 p.a., subject to National award).

Applicants must be suitably qualified (by examination) and have had experience in taking off quantities, site measurement, interim certificates and final accounts.

(b) SENIOR ASSISTANT ARCHITECTS, Special Scale (£750 x £40-£1,030 p.a., subject to National award).

(c) ASSISTANT ARCHITECTS, Grade A.P.T. II (£765-£880 p.a.).

(d) ASSISTANT ARCHITECTS, Grade A.P.T. I (£610-£765 p.a.).

Architectural appointments will be appropriate to professional experience and qualifications, but applicants for (b) must have passed Parts 1 and 2 of the final examination of the R.I.B.A., and have had experience in design, construction and contract administration, preferably with a large local authority.

HOUSING ACCOMMODATION AVAILABLE IF NECESSARY AT AN ECONOMIC RENT. FIVE - DAY WEEK.

Details and application forms (returnable by 15th JUNE) from City Architect, Council House, Bristol, 1.

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited for the following posts:

ASSISTANT BUILDING SUPERVISOR (REF. 730).

Applicants must be Associate members of R.I.C.S. and capable of preparing working drawings and specifications for alteration works, site surveying and levelling, etc.

Salary scale: £730 x £25(2) x £30(2) x £35(5) x £40(1)-£1,055, plus £20-£50 London Weighting.

SURVEYING ASSISTANT (REF. 731).

Applicants must have passed the intermediate examination of the R.I.C.S. (IIIB).

Salary Scale: £545 (age 21 or over) x £20(3) x £25(4) x £30(2)-£765, plus £20-£30 London Weighting.

The work is varied and interesting and entails preparation of surveys, working drawings and specifications under supervision, of works of a minor character. The Board operates a scheme of financial assistance to students studying for professional examinations.

STARTING salaries in both grades may be above minimum having regard to relevant practical experience. Whitley Council conditions. Superannuable.

APPLY, stating age, qualifications (with dates) and experience, together with the names and addresses of two referees to: Secretary, North West Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2, by 8th JUNE quoting appropriate reference.

HEREFORDSHIRE COUNTY COUNCIL.

CLERK OF WORKS required on permanent staff on Grade VI of the scales for the Miscellaneous Classes of officers (£715 to £775 per annum). To supervise building contracts throughout the country and such other duties as may be allotted. Must provide a car for which an allowance will be payable.

Superannuated post subject to medical examination and one month's notice on either side. Travel and subsistence allowance payable to married men in certain cases for limited period.

Application form from County Architect, Bath-street, Hereford, to be submitted by 15th JUNE, 1959.

INVERNESS COUNTY COUNCIL

invite applications for the undernoted appointments in the County Architect's Department.

(i) 1 SENIOR ARCHITECTURAL ASSISTANT. Salary £1,005-£1,085 per annum.

(ii) 2 ARCHITECTURAL ASSISTANTS. Salary £760-£1,040 per annum.

Appropriate placing will be given in accordance with qualifications and experience. Applicants must be Associate Members of the Royal Institute of British Architects. Housing accommodation may be made available if required. Applications together with names and addresses of three referees to the County Clerk, County Buildings, Inverness, by 12th JUNE, 1959.

KENT COUNTY COUNCIL.

ASSISTANT COUNTY ARCHITECT required at a salary within the range £1,790 to £2,280 a year, according to qualifications and experience.

Candidates must be Fellows or Associates of the Royal Institute of British Architects and have had wide experience in the practice of architecture.

Further details and forms of application obtainable from the County Architect, Springfield, Maidstone, to whom applications must be returned by not later than the 19th JUNE, 1959.

WEDNESFIELD URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT at a salary in accordance with Grade A.P.T. II (£765-£880 per annum) and the National Joint Council's Conditions of Service will apply.

Applicants must have a good experience in architectural design and construction and preference will be given to those who have passed the Intermediate Examination of the Royal Institute of British Architects. The appointment is subject to the Local Government Superannuation Acts, to the successful candidate passing a medical examination and will be terminated by one month's notice on either side. Housing accommodation will be provided for the successful applicant, if necessary, and the Council agree to pay reasonable removal expenses.

The Urban District is developing rapidly, the Council being a reception area for "Overspill" and the department is responsible for many large capital works and the appointment, therefore, offers exceptional experience.

Applications stating age, qualifications, previous appointments and details of experience together with the names and addresses of two referees must reach the undersigned by not later than FRIDAY, the 5th JUNE, 1959.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

ESSEX COUNTY COUNCIL.

ILFORD COMMITTEE FOR EDUCATION.

Applications are invited for the appointment to the following posts in the Education Architect's Section of the Borough Engineer's Office:—

(a) TWO SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade III-IV (£880-£1,220 per annum).

(b) ASSISTANT ARCHITECT, A.P.T. Special Grade (£750-£1,030 per annum, subject to review).

(c) ASSISTANT ARCHITECT, A.P.T. Grade I (£610-£765 per annum).

Plus appropriate London Weighting in each case.

The posts are superannuable and subject to medical examination.

Commencing salaries will be fixed within the grades according to experience.

Applicants for posts (a) and (b) must be Associates of the R.I.B.A. and have suitable experience in the design and development of school buildings.

Applicants for post (c) must have passed the Intermediate R.I.B.A. examination or its equivalent at a recognised School of Architecture.

Applications should be made on a form to be obtained from and returned to the Borough Engineer and Surveyor, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement.

METROPOLITAN BOROUGH OF SHOREDITCH.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Salary within Grade A.P.T. II £755-£875 p.a. according to experience and qualifications. (A recommendation of the N.J.C. on revised salary scales will shortly be considered by the Council.)

Subject to medical exam., Council's Superannuation Scheme and N.J.C. conditions.

Applications stating age, training and experience and giving the names of two referees to reach Borough Architect, Town Hall, Old-street, E.C.1, by 13th JUNE, 1959.

COUNTY BOROUGH OF WEST HAM.

Applications invited for appointment of DEPUTY BOROUGH ARCHITECT AND PLANNING OFFICER.

(Salary: £1,776 13s. 4d. by 3 annual increments to £2,000 p.a., inclusive, and £100 Car Allowance.)

Applicants must be experienced in Redevelopment of Urban Areas, including High Density Housing, Town Planning Administration, and management of large Building Contracts. Successful applicant must be prepared to accept a high degree of responsibility for a large and varied programme.

Details, together with Application Form, which should be returned by 16th JUNE, 1959, from the Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., M.T.P.I., 70 West Ham-lane, Stratford, E.15.

G. E. SMITH,
Town Clerk.

West Ham Town Hall,
Stratford,
E.15.

CARMARTHENSHIRE COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ASSISTANT ARCHITECT, Salary Grade Special Scale. (Subject to Amendment.)

Applicants must have passed the final examination of the R.I.B.A.

Details of qualifications, experience, etc., together with copies of three recent testimonials to County Architect, County Hall, Carmarthen, not later than SATURDAY, 6th JUNE, 1959.

W. S. THOMAS,
Clerk of the County Council.

County Hall,
Carmarthen.
May, 1959.

CITY AND COUNTY OF KINGSTON UPON HULL.

CITY ENGINEER'S DEPARTMENT.

APPOINTMENT OF TECHNICAL STAFF

Applications are invited for the appointment of an ENGINEERING ASSISTANT, A.P.T. Grade IV, £1,065-£1,220 per annum, commencing salary according to experience.

Applicants must be Corporate Members of the Institution of Civil Engineers and/or hold the Testamur of the Institution of Municipal Engineers or be Associates of the Royal Institute of Chartered Surveyors. Experience in the design and maintenance of buildings for Baths, Washhouses, Markets, etc., would be an advantage.

Housing accommodation will be made available for the successful married candidate not already resident within the City. Consideration will be given to a contribution towards removal expenses.

Applications on forms which can be obtained from the City Engineer, Guildhall, Kingston upon Hull, are to be returned not later than the 16th JUNE, 1959.

WM. MORRIS, O.B.E.,
City Engineer.

Guildhall,
Kingston upon Hull.

MANSFIELD AND DISTRICT CREMATORIUM JOINT COMMITTEE.

CREMATORIUM—DERBY-ROAD, MANSFIELD.

CLERK OF WORKS.

Applications are invited from suitably qualified persons for the above TEMPORARY APPOINTMENT necessary for the completion of the above building which is now in course of erection.

Applicants must have had considerable experience in the supervision of a similar class of work, and must have a sound knowledge of all the trades in connection therewith, including the setting out and measuring of work on the site and the keeping of the necessary records.

The salary to be within Grade A.P.T III, £880-£1,065 per annum) commencing at £955 per annum.

The post is subject to the appropriate N.J.C. Conditions of Service, the normal hours worked in the Building Trade, and appointment terminable by one month's notice on either side.

Applications stating age, experience previous and present employment, qualifications, and names and addresses of two referees should be sent to the undersigned to be received not later than 8th JUNE, 1959.

A. C. SHEPHERD,
Clerk to the Joint Committee.

Carr Bank,
Mansfield,
Notts.

ASSISTANT CLERK OF WORKS

Required to assist in supervision of new Welwyn/Hatfield Hospital, Hatfield Hyde, Herts. As concrete inspection major part of duties at outset applicants required to have experience of reinforced concrete work. Appointment vacant now and expected to last for at least two years.

Salary £780 per annum. Assistance in obtaining housing accommodation might be given.

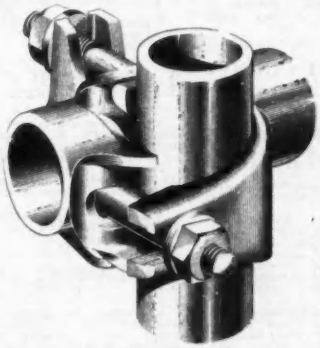
Consulting structural engineers are Messrs. Leslie Turner & Partners and Resident Engineer is Mr. A. E. Peatfield, M.I.Struct.E., A.M.I.Mech.E.

Apply giving age, qualifications and experience with the names and addresses of two referees (preferably employers) to Secretary, North-West Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, W.2, by 11th JUNE, quoting Reference 732.

LONDON COUNTY COUNCIL.

CHARTERED QUANTITY SURVEYORS required to fill positions in Quantities Division, Bills of Quantities Section, Architect's Department. Applicants should have had at least 3 years' experience on working-up and some experience of junior taking-off. Up to £1,090 (at present under review), according to experience. Application form returnable by 18th JUNE, and particulars from Hubert Bennett, F.R.I.B.A., AR/EK/54/59, County Hall, S.E.1. (1167.)

BOULTON cut the cost of scaffolding



cut building time, too!

Boulton fittings cut your costs. Cut your building time, too. These are facts. Cold as they come.

The first you can prove by a look at the price lists. The second you can tell — if you know your scaffolding—by a look at one of the fittings. Boulton are not just the cheapest B.S.S. fittings on the market. They are far and away the most efficient.

The two minutes it will take you to send for details could be the most profitable you've ever spent. A note will do. You'll get the details by return.

TECHNICAL SERVICE The Boulton Advisory Service exists to solve your scaffolding problems. It is at your service freely and at all times.

BOULTON TUBULAR STRUCTURES LIMITED

MANUFACTURERS AND CONTRACTORS

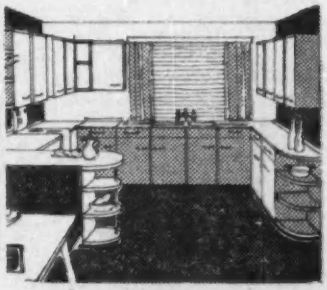
LONDON: Putney Bridge Rd., Wandsworth, S.W.18. *TEL. VANdyke 6551*

BIRMINGHAM: Booth St., Handsworth. *TEL. Northern 9367*

LEISURE helps you plan...

the kitchen she dreams about

Remember, when kitchen planning, that the Leisure Advisory Service can be relied on for help. Leisure offer you the services of a photographic unit which will set up and photograph model kitchens for you. In this way you can get a complete picture of the kitchens you have in mind. According to your specifications of size, shape and price the Advisory Service will also suggest units to fit the kitchens you plan, so giving each an individual and made-to-measure look of quality and class. Why not write for details? Leisure experts are there to serve you.



LEISURE

THE LEADING NAME IN KITCHEN EQUIPMENT

Everetts

LEISURE KITCHEN EQUIPMENT LTD.
Nottingham Road, Long Eaton, Nottingham.
Proprietors: Allied Ironfounders Ltd.

COUNTY BOROUGH OF WEST HAM.

BONUS MEASURING ASSISTANT required. Wage £12 per week.

Applicants should be experienced in measuring building works in all trades for incentive bonus.

Applications in writing, giving particulars of experience, age, etc., to Borough Engineer and Surveyor, West Ham Town Hall, Stratford, E.15, by 8th JUNE, 1959.

COUNTY OF ESSEX.

BOROUGH OF WALTHAMSTOW.

COMMITTEE FOR EDUCATION.

Applications are invited for the following appointments in the office of the Education Architect, T. L. Rampton, A.R.I.B.A., A.R.I.C.S.:—

(a) ASSISTANT ARCHITECT, Special Grade, £750 to £1,030 per annum.

(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade I, £610 to £765 per annum.

(c) ASSISTANT BUILDING SURVEYOR, A.P.T. Grade I, £610 to £765 per annum.

London Weighting of £30 p.a. (under 26 years of age £20) applicable to the appointments.

Commencing salary according to qualifications and experience.

For appointment (a) applicants must have passed Parts I and II of the Final Examination of the R.I.B.A. Experience in school planning and construction an advantage.

For appointment (c) applicants should be capable of preparing estimates, specifications and supervising minor works of maintenance and alterations.

Forms of application to be obtained from and returned to the Borough Education Officer, Town Hall, Walthamstow, E.17, within two weeks of the appearance of this notice.

29th May, 1959.

LONDON COUNTY COUNCIL.

PARKS DEPARTMENT.

BUILDING SURVEYING ASSISTANTS. Good draughtsmen with experience of preparation of working drawings and specifications and supervision of contract work. Up to £860 (under review). Apply to Chief Officer, Parks Department (A1/BS), County Hall, S.E.1. (WATerloo 5000, Ext. 8076.) (1147.)

KUMASI COLLEGE OF TECHNOLOGY, KUMASI, GHANA

require TEMPORARY ARCHITECTURAL STAFF at their London office for about nine months to prepare contract drawings for a large building programme in Ghana. Salary range from £80 to £120 per month according to experience. Applications are invited from qualified architects. Further details may be obtained from the London Office of Kumasi College of Technology, 29 Tavistock-square, London, W.C.1, to whom applications should be sent as soon as possible.

SPALDING RURAL DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

ARCHITECTURAL AND SURVEYING ASSISTANT required. Salary A.P.T. II of the National Scale (£765 to £880 p.a.). Medical Examination. Superannuation. Council House available. One half of removal expenses offered. Good draughtsman and experienced in taking-off and preparing Bills of Quantities and setting final accounts.

Application with names of two referees to the Clerk of the Spalding Rural District Council, Priory-road, Spalding, not later than 6th JUNE, 1959.

COUNTY BOROUGH OF SOUTHPORT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT (Special Grade £750-£1,030 per annum) in the Borough Architect and Town Planning Officer's Department.

Applicants must have passed the Final Examination of the R.I.B.A.

Application forms may be obtained from the Borough Architect and Town Planning Officer, 99-105 Lord-street. Closing date for the receipt of applications is 13th JUNE.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

BUILDING SURVEYING ASSISTANTS Required to carry out inspection of buildings for major maintenance and repair works, minor alterations and redecoration. Work involves preparation of specifications and estimates (in most cases based on schedule of prices), and supervision of works by contractors and direct labour. Up to £860 (at present under review). Application form, returnable by 6th JUNE, from Architect to Council, AR/EK/53/59, County Hall, S.E.1. (1119.)

COUNTY BOROUGH OF CROYDON.

TEMPORARY CLERK OF WORKS.

Applications are invited for this appointment from persons accustomed to housing contracts, including multi-storey flats. Salary £15 17s. 6d. per week, or £16 7s. 6d. if holding an approved qualification. Applications on forms obtained from the Borough Engineer, Town Hall, Croydon. Closing date 15th June, 1959.

E. TABERNER,
Town Clerk.

TONBRIDGE RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the abovementioned appointment at a salary in accordance with Grade A.P.T. I (£610-£765 per annum).

The appointment is subject to the National Scheme of Conditions of Service and to the passing of a medical examination.

If required, assistance will be given by the Council in the provision of housing accommodation.

Forms of application may be obtained from and should be returned to the Engineer and Surveyor at the undermentioned address not later than MONDAY, the 8th JUNE, 1959.

C. KIRBY,
Clerk of the Council.

48 Pembury-road,
Tonbridge,
Kent.

COUNTY BOROUGH OF EAST HAM.

ARCHITECTURAL ASSISTANT
GRADE I, £610-£765.

London Weighting is paid in addition. A salary in excess of the minimum may be paid according to qualifications and experience.

A subsistence allowance may be granted over a reasonable period to the person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by 12th JUNE, 1959, from the Town Clerk, Town Hall, E.6.

CITY ARCHITECT'S OFFICE.

MANCHESTER.

Applications invited for appointments on the permanent staff of (a) ASSISTANT ARCHITECT / ARCHITECTURAL ASSISTANT, salary special scale at present £750-£1,030 is under review. Commencing salary will be fixed according to qualifications and experience; and (b) ARCHITECTURAL ASSISTANT, salary A.P.T. I, £610-£765. Five-day week. Removal expenses allowed. Housing accommodation for a limited period may be provided for the successful candidate for the senior appointment.

Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable 8th JUNE, 1959.

BOROUGH OF WILLESDEN.

Applications are invited for the appointment in the Building Works Section of the Borough Engineer and Surveyor's Department of INCENTIVES OFFICER, salary within Grade A.P.T. I (£610-£765 p.a.) plus London Weighting, maximum £30 p.a.

Candidates should have had experience in Bonus Surveying on new buildings including measurement and agreeing targets.

The Council cannot assist with housing.

Further details and application forms obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6.

(Signed) R. S. FORSTER,
Town Clerk.

12th May, 1959.

ARCHITECTS AND BUILDING SURVEYORS.

The L.C.C. (Architect's Department) requires ARCHITECTS and BUILDING SURVEYORS interested in modernisation and conversion of older blocks of Council Flats which are being undertaken in the General Division. Up to £1,090 according to qualifications and experience. Salaries at present under review. Holiday arrangements respected. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/48/59, County Hall, S.E.1. (1036)

EAST ANGLIAN REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS for work on the Board's capital programme (including major hospital development, estimated cost £2½ m., at Peterborough and District Memorial Hospital). Candidates must be registered architects and have had good general experience; hospital experience will be an advantage. Salary £1,050-£1,245.

Applications stating age, qualifications, experience and details of present position (salary, etc.) with names of three referees, to Secretary of Board, 117 Chesterton-road, Cambridge, by 5th JUNE, 1959.

CITY OF CANTERBURY.

Applications are invited for the appointment of CHIEF TOWN PLANNING ASSISTANT, Special Scale (£750-£1,030). Commencing salary for the appointment will be according to ability and experience.

Applicants must be Associates of the Town Planning Institute and preference will be given to those possessing an additional qualification in Architecture. Applicants should have experience in dealing with three-dimensional design problems in connection with redevelopment and reconstruction. Experience in statutory planning is also desirable, particularly with regard to the forthcoming review of the Development Plan.

Housing accommodation will be made available if required.

Applications, together with the names of two referees, must reach the City Architect and Planning Officer, Mr. John L. Berbiers, F.R.I.B.A., A.M.T.P.I., not later than WEDNESDAY, 10th JUNE, 1959.

Canvassing will disqualify.

JOHN BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

BIRMINGHAM REGIONAL HOSPITAL BOARD.

ARCHITECTURAL ASSISTANTS required. Salary scale £545-£765 p.a. Point of entry according to experience. Inter. R.I.B.A. essential. Superannuable. Apply naming two referees to Secretary, R.H.B., 10 Augustus-road, Birmingham 15, by 18th June.

LONDON COUNTY COUNCIL.

Vacancies for ENGINEERING ASSISTANTS (up to £860) and ENGINEERS, Grade III (up to £1,090) (scales at present under review) in:—

(a) STRUCTURAL ENGINEERING DIVISION—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings; and,

(b) DISTRICT SURVEYORS' SERVICE—In districts coinciding with one exception, with Metropolitan Borough Boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/45/59, County Hall, S.E.1. (925.)

ISLE OF WIGHT COUNTY COUNCIL.

Applications are invited for the following established appointments in the County Architect's Department:—

SENIOR ASSISTANT ARCHITECTS (2). Salary within A.P.T. Grade IV (£1,065-£1,220). Candidates must be associate members of the R.I.B.A., have had experience in the planning, design, and construction of schools and other local authority work.

ARCHITECTURAL ASSISTANT/ASSISTANT ARCHITECT (1). A.P.T. II (£765-£880) or Special Grade (at present £750-£1,030), the latter if candidate has passed the final examination of the R.I.B.A. Candidates should have a sound general experience preferably in local authority work.

Application forms, obtainable from, and returnable to, the Clerk of the County Council, County Hall Newport, I.W., not later than 12th JUNE, 1959.

BOROUGH OF SUTTON AND CHEAM.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Grade A.P.T. IV £1,065-£1,220 plus £20-£30 London "Weighting" per annum.

Applicants should have good general experience in Housing and Public Buildings.

The commencing salary will be according to ability and experience.

The appointment which is terminable by one month's notice in writing on either side, is on the permanent staff of the Corporation, is subject to the provisions of the Local Government Superannuation Acts, 1937 to 1953, and to the National Scheme of Conditions of Service.

The successful candidate will be required to pass a medical examination. Forms of application may be obtained from Mr. N. H. Mitchell, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, to whom they should be returned, accompanied by copies of two recent testimonials not later than 9th JUNE, 1959, endorsed "Architectural Assistant, Grade A.P.T. IV." Applicants must state whether they are related to any member or holder of any senior office under the Borough Council. Canvassing in any form will disqualify.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton,
Surrey.

QUANTITY SURVEYING

ASSISTANT Required for about two years in France. Salary on scale £720 at age 26 rising by six increments to £900 per annum. Overseas Allowance payable in addition. Candidates should hold either City and Guild Final Certificate (Sections A and B) in Builder's Quantities or National Building Certificate or Licentiate Diploma of the Institute of Builders or proof of professional study to an equivalent standard. Knowledge of French desirable.

Applications should be forwarded by 5th JUNE, 1959, to Establishment Officer (Appointments D), Imperial War Graves Commission, Wooburn House, Wooburn Green, High Wycombe, Bucks.

SOUTHAMPTON COUNTY BOROUGH COUNCIL

Requires under N.J.C. conditions of service:
ASSISTANT QUANTITY SURVEYOR
—salary within Special Grade
(£750-£1,030 p.a.)

Applicants must be Chartered Quantity Surveyors, preferably with experience in municipal housing, including multi-storey flats and shopping centres.

The salary scale is subject to adjustment in accordance with the new N.J.C. increase.

Apply on application forms, obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, by not later than MONDAY, 15th JUNE, 1959.

CWMBRAN DEVELOPMENT CORPORATION.

APPOINTMENT OF
DEPUTY CHIEF ARCHITECT.

Applications are invited for the above superannuable post in the Salary range £1,527-£1,755, the point of entry being in accordance with qualifications and experience.

Applicants should be Associates of the R.I.B.A. and with experience of large scale Housing contracts and Town Centre Development. Experience in Town Planning will be an advantage. Housing accommodation will be made available to the successful applicant if needed.

Applications stating age, experience, details of present and former employment (together with applicable salaries) and the names and addresses of two referees must reach the undersigned by first post on MONDAY, 8th JUNE, 1959.

J. C. P. WEST, A.R.I.B.A., M.T.P.I.,
Chief Architect.

Victoria-street,
Cwmbran,
Mon.

LANCASHIRE COUNTY COUNCIL.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, for a large and varied programme.

Permanent posts in A.P.T. Grade V (£1,220-£1,375). Starting point according to experience. *Previous applicants should not re-apply.*

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston, reference A/B.

LANCASHIRE COUNTY COUNCIL.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

Permanent posts on Special Class Scale (at present £750-£1,030, but under review). Starting point according to experience.

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston, reference A/B.

THE UNITED NEWCASTLE-UPON-TYNE HOSPITALS.

Applications are invited for the appointment of an ASSISTANT ARCHITECT in the Staff Architect's Department of the above Group of Hospitals.

The salary scale £730 x £25(2) x £30(2) x £35(2) x £40(1)-£1,055 p.a.

The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

The successful applicant will assist in the preparation of a Master Plan of future building development for the Royal Victorian Infirmary, Newcastle, and he will also be required to carry out under the supervision of the Staff Architect certain building schemes for which the department is responsible.

Applicants must be Registered Architects and Associate members of the R.I.B.A., with a sound knowledge of the planning and construction of public buildings. Experience in hospital building work would be of advantage.

Applications stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (two of whom should be architects) should be forwarded to the House Governor and Secretary, Royal Victoria Infirmary, Newcastle-upon-Tyne, by not later than 30th JUNE, 1959.

Braby

STORAGE EQUIPMENT

Whatever the apparent intractability of any storage problem, when systematic storage equipment from Braby is installed, order is quickly redeemed from chaos, stock issue procedures are simplified and stock control can be virtually absolute.

FREDERICK Braby & COMPANY LIMITED

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Telephone: EUSton 3456

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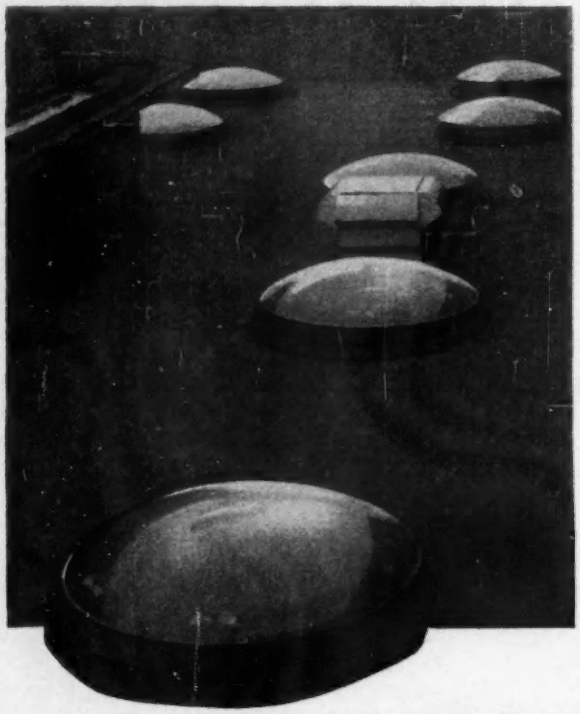
CRAYFORD · LIVERPOOL · BRISTOL BELFAST PLYMOUTH FALKIRK

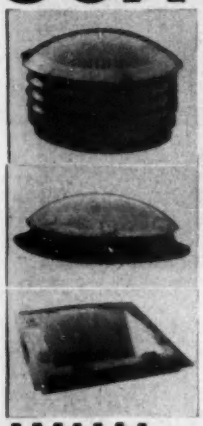
AP 146

The FIRST 'PERSPEX' DOME ROOF LIGHTS.



Some of the 21 Cox Domes of 44" diameter fitted at Fairmead County Secondary School, Pyrie's Lane, Loughton, Essex, in 1950. These Domes have given nearly 9 years' completely trouble-free service, without requiring any maintenance, and on recent inspection were found to be in exactly the same condition as the day they were installed.
Architect: H. Conolly, C.B.E., F.R.I.B.A., Essex County Architect.
Main Contractors: Gilbert-Ash Ltd.

COX Domes for Added Light.

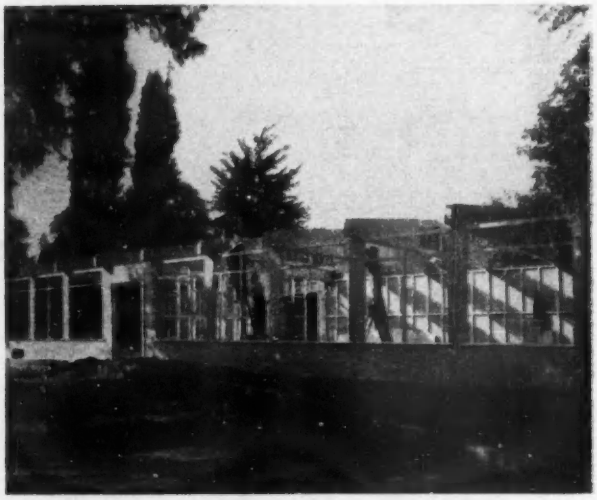


Available in circular, square or rectangular shapes, Cox 'Perspex' Dome Roof Lights are economically priced, negligible in weight and easy to fix. Made in either clear 'Perspex' or diffused opal for privacy and anti-glare, they are virtually unbreakable and admit maximum daylight under all conditions.

For further details please write to:-

Williaam J. COX Ltd.

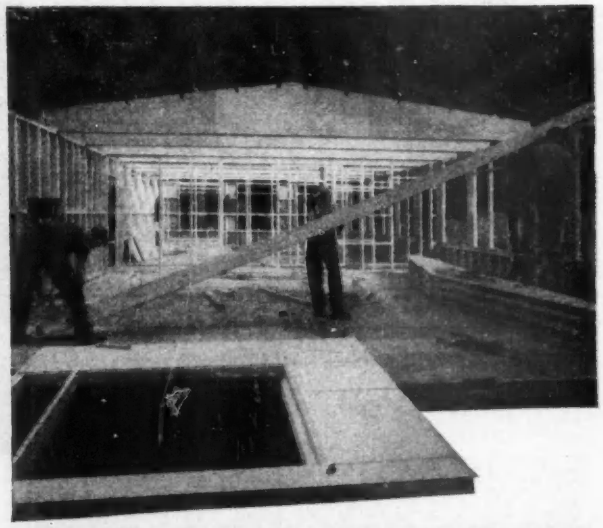
'Perspex' fabricators and shapers. (A.I.D. approved No. 3676/42).
559-561 Holloway Road, London, N.19.
Tel: ARChway 1174/1175



GRENVILLE COLLEGE a new private school in Suffolk (shown here under construction) was prefabricated by D. McMaster (Bures) Ltd., and Canadian fir plywood building components were erected on the site in 6 days.

prefabrication with Canadian fir plywood

Prefabrication of school building components is *one* place where Canadian fir plywood cuts costs. Canadian fir plywood — a grade to suit any job — is structurally strong, light, easy-to-handle without breakage, and permanently bonded with waterproof glue.
Prefabricated building components, made with low cost Canadian fir plywood, save the manufacturer money on material, labour and transport. *Ask your timber & plywood supplier about prices.*

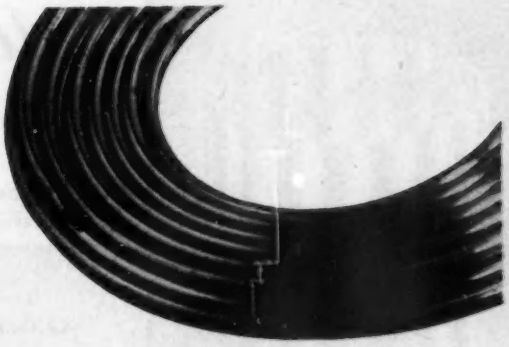


CANADIAN DOUGLAS FIR PLYWOOD

For free technical data on fir plywood prefabrication write to:-
PLYWOOD MANUFACTURERS ASSOCIATION OF BRITISH COLUMBIA
WHEATSHEAF HOUSE, 4 CARMELITE STREET, LONDON, E.C.4.

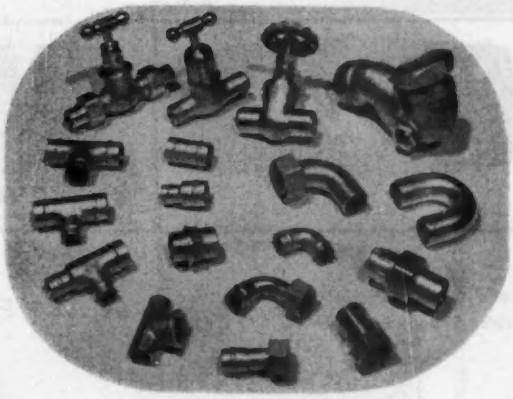
FIR PLYWOOD MARKED PMBC EXTERIOR HAS WATERPROOF GLUE
59-20

YORKSHIRE IMPERIAL

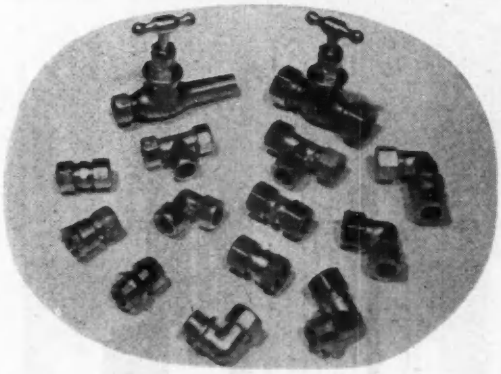


the complete range for every requirement in Tubes and Fittings to ensure Quality and Economy

. . . with a nation-wide distribution service to meet all emergencies

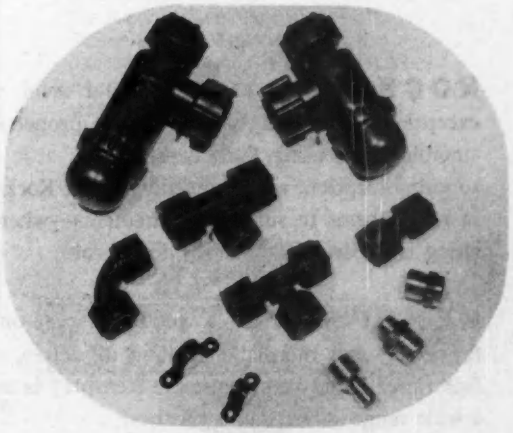


Copper Tubes in 18 ft. and 20 ft. straight lengths to B.S.659—"Kuterlon/Yorcalon" long length copper tubes in coils—"Kuterlex" P.V.C. and polythene covered copper tubes—"Yorkshire" capillary Copper Fittings and "Yorcasal" Fittings—3" and 4" Fittings—Waste Fittings—High Duty Fittings—O.D. size Fittings.



"Instantor" and "Kuterlite" non-manipulative compression fittings.

"Coneor" manipulative compression fittings.



"Polyorc A" (flexible) polythene tubes in long length coils—"Plastronga" (high-strength) polythene tubes in straight lengths and coils—a comprehensive range of "Plastronga" polythene fittings.

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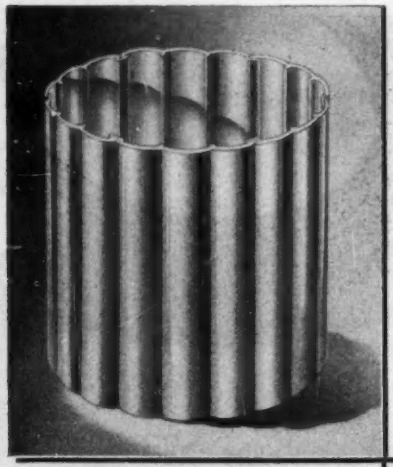
Lead Pipe and Sheet.

YORKSHIRE IMPERIAL METALS LIMITED

HEAD OFFICE—P.O. BOX 166, LEEDS TELEPHONE: LEEDS 7-2222



Aluminium Facings

The JAXITE range of interlocking extruded aluminium facings is now available in gold, black and silver anodised finish and in a great variety of stove enamelled colours.

These attractive extrusions are stocked in 16′ 0″ lengths. The standard width is 6″. Supplementary corner sections and trims complete the range.

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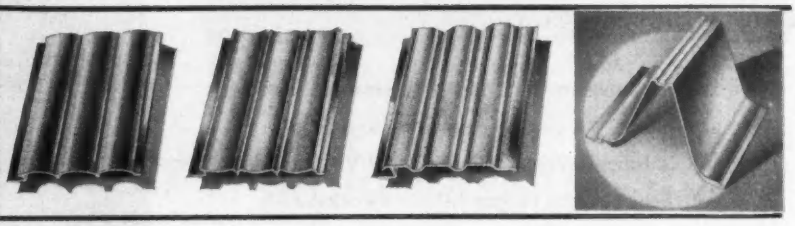

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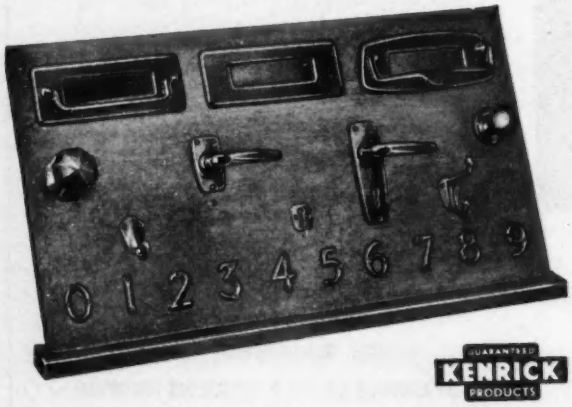

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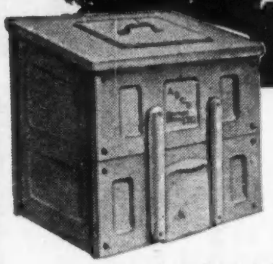

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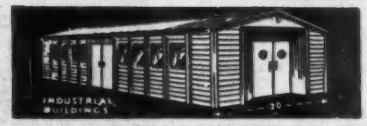

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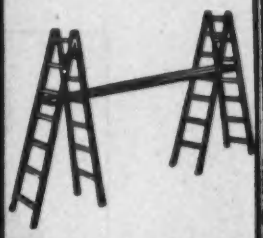

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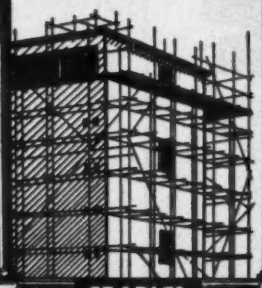

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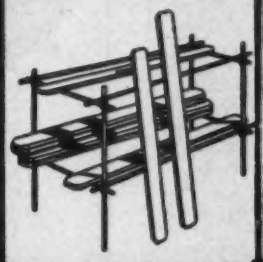

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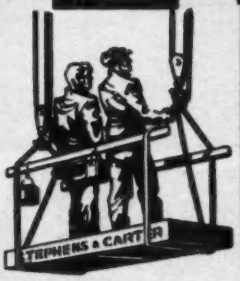

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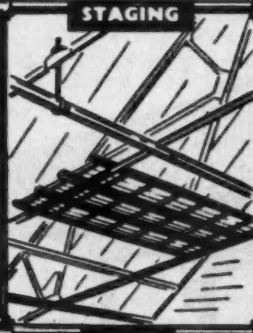

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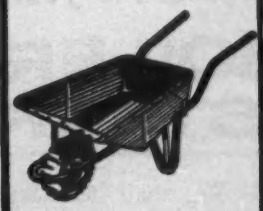

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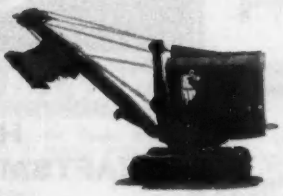

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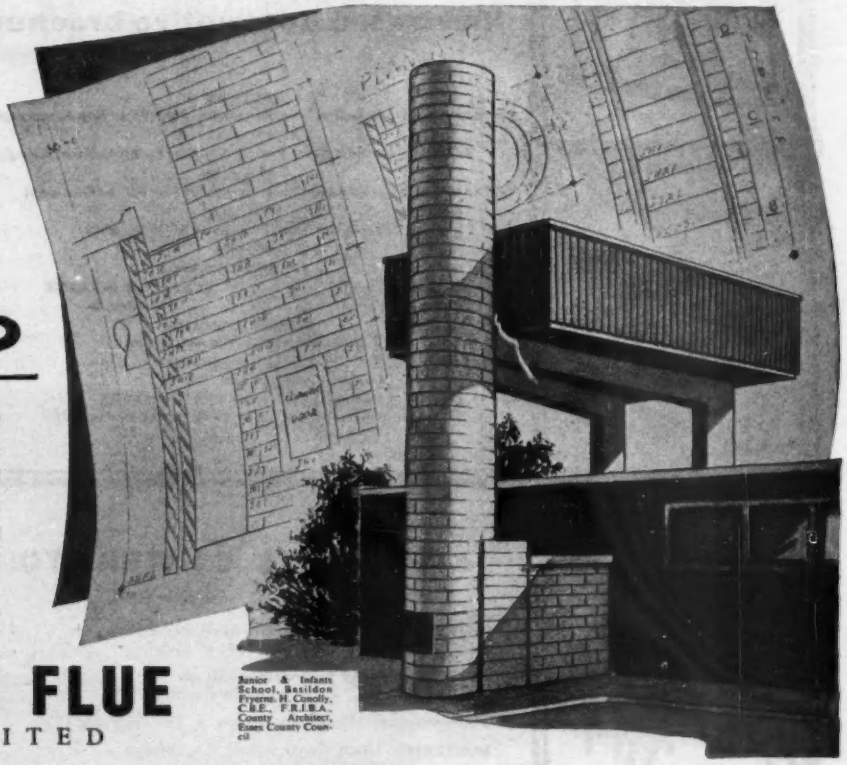

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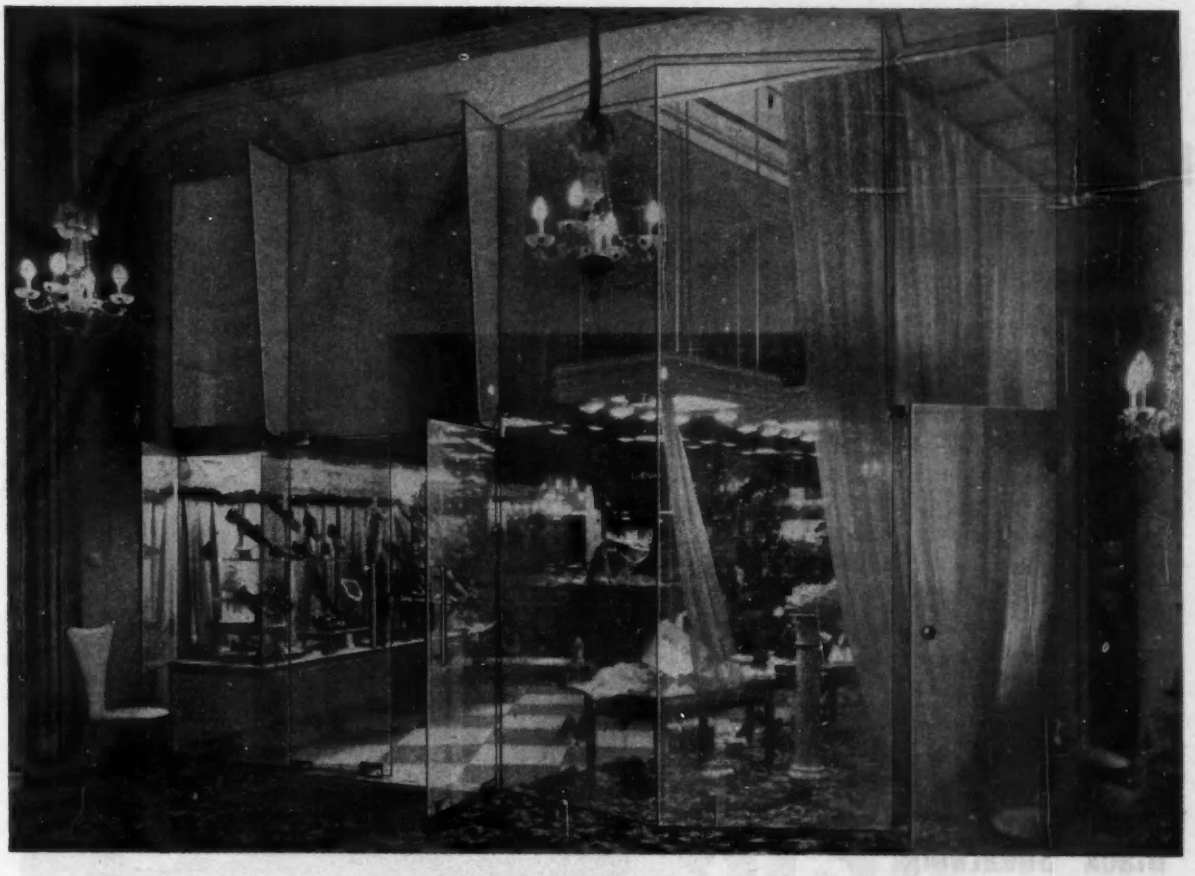

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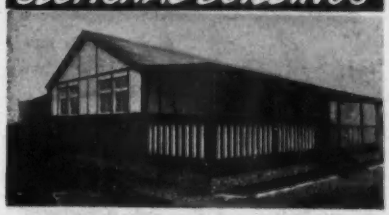

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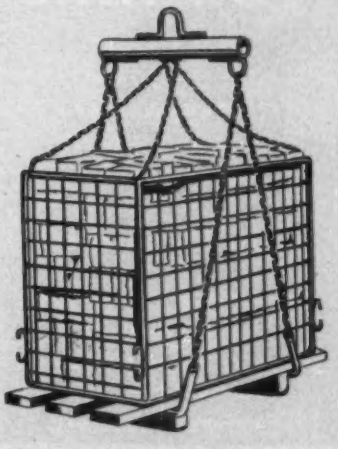

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ARCHITECTS and experienced ASSISTANTS Required by McMorran and Whitby, 14 North Audley-street, London, W.1. MAYfair 0250/6036. Salaries commensurate with capacity for responsibility.

FARMER & DARK have vacancies for SENIOR and ASSISTANT ARCHITECTS for a variety of projects in the U.K. and Overseas.—Write with full particulars and salary required to FARMER & DARK, Romney House, Tufton-street, Westminster, S.W.1.

ARCHITECTURAL ASSISTANT. Intermediate standard, office experience, driving licence holder, keen to work in country practice. Salary by arrangement.—Box 990, "The Builder."

ARCHITECTURAL ASSISTANT Required immediately, of intermediate standard, able to work on own initiative. Permanent position; holiday arrangements respected.—'Phone or write for interview to NICHOLSON & RUSHTON, 2 New Square, Lincoln's Inn, W.C.2. Holborn 2095.

RAGLAN SQUIRE AND PARTNERS have vacancies for ARCHITECTURAL ASSISTANTS of R.I.B.A. Inter.-Final standard with office experience.—Please write only, with full particulars of age, experience and salary to 3 Hobart-place, S.W.1.

SEVERAL SENIOR AND INTERMEDIATE ARCHITECTURAL ASSISTANTS are Required for commercial projects including Hotel, Theatre and extensive development schemes of offices and light industry etc., in London Architect's Office. Holiday arrangements will be recognised. 5-day week. Salary according to experience.—Telephone City 8811.

ASSISTANT of Intermediate Standard Required by Croydon firm of Architects. Varied and interesting work. Five-day week, holiday this year. —Apply to HUGH MACINTOSH & PARTNERS, 33-35 High-street, Croydon.

EXPERIENCED ARCHITECTURAL ASSISTANTS Required, one qualified and one of at least Intermediate standard, for Branch Office Birmingham, engaged on a varied and interesting programme of Commercial projects. The positions are pensionable and a five-day week is in operation.—Applications giving full particulars to G. S. HAY, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY Ltd., 1 Balloon-street, Manchester, 4.

INTERMEDIATE standard ASSISTANT Required with experience of industrial work, for Architects' London (City) office. Salary by arrangement.—Write Box 908, "The Builder."

ARCHITECTURAL ASSISTANT, London, Final Standard. Industrial and Commercial. Progressive and interesting. Salary according to experience and ability.—Box 901, "The Builder."

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JACK GODFREY-GILBERT, F.R.I.B.A., requires an ASSISTANT not necessarily qualified but willing and able to take responsibility. Good prospects and permanent position in small but very busy private practice with branch office shortly starting on South Coast.—Please apply in writing with full particulars to 1-3 The Broadway, Wimbledon, S.W.19.

SENIOR ASSISTANT Required for Bournemouth Architect's office, final or near final standard. Age not material, state experience and salary required.—Box 1180, "The Builder."

JUNIOR ASSISTANT Required for Bournemouth Architect's office. State age, experience and salary required. Must be ex-National Service.—Box 1181, "The Builder."

F. W. WOOLWORTH & CO., Ltd., Architect's Department—Kensington District Office. Applications are invited for the following appointment: ARCHITECTURAL ASSISTANT of Intermediate R.I.B.A. Standard, capable of carrying out surveys, preparing sketch schemes, working drawings and details. The appointment is pensionable. Five-day week. Dining room facilities.—Application stating age, experience, qualifications and salary, to District Architect, F. W. WOOLWORTH & CO., Ltd., 26-40 Kensington High-street, London, W.8.

STAFF, Intermediate and Senior, Required for London firm of architects with large practice organised on a team system.—Apply, giving brief particulars to EASTON & ROBERTSON, Chartered Architects, 53 Bedford-square, W.C.1.

SENIOR ARCHITECTURAL ASSISTANT of Final R.I.B.A. standard or equivalent Required for carrying out surveys and reports, preparing sketch schemes, working drawings and details and to be capable of running and supervising various sized works. Pensionable appointment. Five-day week.—Write stating qualifications, experience, age and salary required, to District Architect, F. W. WOOLWORTH & CO., Ltd., Metropolitan District Office, 311 Oxford-street, London, W.1.

ARCHITECTURAL ASSISTANT

of final R.I.B.A. standard

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To work on a varied and interesting programme. Experience in industrial and commercial building design desirable. Five day week, attractive working conditions and amenities, Pension Scheme. Provision of housing accommodation will be considered for suitable applicants. Salary according to qualifications and experience. Write, stating age, qualifications, and salary required to Chief Architect, Cadbury Brothers Ltd., Bournville, Birmingham.

ASSISTANTS Required, London and Great Missenden. Salary £500-£850 according to experience.—W. LESLIE JONES, Architect, 59 High-street, Great Missenden, Buckinghamshire. Tel.: Great Missenden 2306.

ROWNTREE & CO., LTD., have a vacancy in their Architects' Department for an ARCHITECTURAL ASSISTANT. Applications are invited from men of final R.I.B.A. standard, who are preferably under 30 years of age and have experience and knowledge of factory construction and alteration.—Please write for further details and application form to The Staff Officer (Men), ROWNTREE & CO., Ltd., The Cocoa Works, York.

ARCHITECT'S ASSISTANT Wanted, Intermediate Standard, in busy office. Good prospects. Holiday arrangements honoured.—Apply WINTER & PICKERING, 32 Holborn Viaduct, E.C.1.

TRIPE & WAKEHAM, Chartered Architects, Require ASSISTANTS with three to five years' office experience.—Telephone WELbeck 7744, or write 16 Fitzhardinge-street, W.1, for an appointment.

SENIOR QUALIFIED ARCHITECTURAL ASSISTANT Required with knowledge of industrial and school work. Also Required first-class ASSISTANT, intermediate standard. Outer London. Good opening for progressive man.—Apply in writing with full particulars, Box 1253, "The Builder."

SENIOR and Junior ARCHITECTURAL ASSISTANTS Required. Salary according to experience and qualifications.—FRANK BRADLEY, F.R.I.B.A., 4 Wood-street, Bolton.

BANK Premises Department in City of London Require immediately qualified ARCHITECTURAL ASSISTANTS, aged 28-33, and experienced ARCHITECTURAL DRAUGHTSMEN, also aged 28-33.—Apply stating age and giving full particulars of experience to Box 1302, "The Builder."

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REINFORCED CONCRETE DESIGNER capable of designing all classes of structures, also REINFORCED CONCRETE DETAILER, capable of producing clear working details. Five-day week, and non-contributory pension scheme. Near Victoria-station.—Apply stating experience and salary required to THE INDENTED BAR AND CONCRETE ENGINEERING CO., Ltd., 171, Victoria-street, London, S.W.1.

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required by well established Company in the Provinces. Applicants to have thorough knowledge of shopfronts and interiors and to be able to prepare comprehensive schemes. Apply stating age and experience to
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MANCHESTER shopfitters require the services of an experienced senior to SUPERVISE Drawing Office staff in the planning and designing of shopfittings for all retail trades. Position calls for ability to handle schemes from the enquiry to the estimating stage. Applicants should be accustomed to presenting schemes in perspective. Apply stating age, experience and salary required.—Box 1162, "The Builder."

DRAUGHTSMAN Required for Building Contractor's office in S.E. London. Must be able to prepare working details from Architects small scale drawings and take off materials for ordering purposes, for all types of building contracts up to £500,000. Generous salary and pension scheme. When applying please state previous experience.—Box 1240, "The Builder."

MONRO & PARTNERS Require ARCHITECTURAL DRAUGHTSMEN for their London and Watford Offices. Salary £600-£900 depending on experience. 5-day week.—Apply 32 Clarendon-road, Watford.

DETAIL DRAUGHTSMAN Required for permanent position in Drawing Office. Shopfitting, joinery, etc. Pension Scheme in operation.—Write for appointment: FRANK W. CLIFFORD, LIMITED, 29 Vauxhall Bridge-road, London, S.W.1.

ARCHITECTURAL DRAUGHTSMAN Required by large Building Company in Cornwall. Applicants should have at least two years' experience as a senior.—Apply stating experience, age and salary required to Box 0682, "The Builder."

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JUNIOR and SENIOR ARCHITECTURAL DRAUGHTSMEN Required for work in drawing office of multiple shop company. Interesting and varied post, involves a certain amount of travelling.—Please reply stating age, brief experience and salary required to Box 0683, "The Builder."

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Vacancy occurs in the London Office for experienced Shopfitting Design Draughtsmen, with knowledge of Store layout work; also representatives having connections with Architects and leading Stores. The positions hold excellent prospects for candidates possessing a high standard of education, tact and initiative, and a good Pension Scheme operates.

Please reply in confidence to the Managing Director:

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EXPERIENCED ARCHITECTURAL DRAUGHTSMAN Required by busy firm of chartered surveyors and land agents designing new farm cottages, houses and farm buildings; cottage and farm improvement schemes. Must be able to prepare detailed specifications and supervise all stages of work. Ability to prepare bills of quantities an advantage but not essential.—Write stating age, experience and salary required to HOBBS AND CHAMBERS of Faringdon, Berks.

ARCHITECTURAL DRAUGHTSMAN Required. Full qualifications not as essential as ability to produce working drawings. Experience in Architect's office essential.—Apply in writing stating qualifications to OLIVER LAW & PARTNERS, F.F.R.I.B.A., 36 Ebury-street, S.W.1.

STRUCTURAL ENGINEERING DRAUGHTSMAN Required for interesting and varied work in Contractor's Drawing Office.—Applications giving details of age, salary and experience to the Structural Engineer, TERSONS, Ltd., 4 Dollis Park, Finchley, N.3.

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SENIOR QUANTITY SURVEYOR'S ASSISTANT Required in West End Architect's office. Opportunity for position of responsibility.—Reply to Box 1154, "The Builder," giving details of age, experience and salary required.

QUANTITY SURVEYOR for site measuring and agreement of accounts. Permanent, pensionable.—Write to The Secretary, FITZPATRICK & SON (CONTRACTORS) Ltd., 455 Old Ford-road, Bow, London, E.3, stating age, experience, salary required, etc.

MANCHESTER—LONDON FIRM QUANTITY SURVEYORS Require young A.R.I.C.S., preferably just qualified, for interesting and varied work taking-off and Final Accounts.—Box 1229, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required for medium-size contract, North Wales. Permanent and progressive position. Pension Scheme.—Write full details of age, experience and salary required to POCHIN Ltd., King-street Works, Middlewich, Cheshire.

ASSISTANT QUANTITY SURVEYOR Required for London office with knowledge of Working-up and site measurement. Five-day week.—Write stating age, experience and salary required, Box 1241, "The Builder."

JUNIOR ASSISTANT, Inter R.I.C.S., Wanted for busy Q.S. Office in West Country. Permanent position. 5-day week. Overtime available. State age and experience, etc.—Box 1292, "The Builder."

SENIOR QUANTITY SURVEYOR

required for Darlington and Middlesbrough Offices. Applicants should be qualified and have had at least five years' taking-off experience.

ASSISTANT QUANTITY SURVEYOR

required for Middlesbrough Office. Applicants should be of Inter-standard with some taking-off experience.

The above positions are permanent and commencing salaries will be subject to annual review. Five day week. Pension Scheme. Three weeks' summer holiday for Senior positions.

Detailed applications, endorsed confidential, to

Messrs. Turner & Townsend,
F/A.R.I.C.S., F/F.I.Q.S.,
'Ellerbeck House',
Woodland Road, Darlington.

TURRIFF CONSTRUCTION CORPORATION Require a QUANTITY SURVEYOR for Birmingham area in first instance and also for general duties. Must be fully experienced in contracting and have proven record of achievement. Good salary and allowance. Permanent and pensionable. Holiday arrangements honoured.—Write Group Personnel Manager, TURRIFF CONSTRUCTION CORPORATION, Ltd., Budbrooke-road, Warwick.

RICHARD COSTAIN, Ltd., have a vacancy for a QUANTITY SURVEYOR. The person appointed will work initially on a Civil Engineering Contract in South-East England. Candidates must have had experience of Civil Engineering measurement with contracting Company.—Address applications giving full details of experience to Senior Personnel Officer, 111 Westminster Bridge-road, London, S.E.1.

QUANTITY SURVEYORS' ASSISTANT, age 25-30 Required by Chartered Quantity Surveyors for work on site on Surrey/Sussex border—recently passed Final R.I.C.S. preferred. Good opportunity of advancement.—Reply stating age, qualifications and salary required. Box 1184, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required by British Railways in the office of the Architect, Eastern Region, King's Cross Station. Applicants should have had experience of taking-off, measuring variations and preparing estimates and specifications for architectural work on the Standard Method of Measurement.

Candidates must have passed the Intermediate examination of the R.I.C.S. Salary according to age, qualifications and experience. Five-day week; concessionary rail travel; permanency and membership of Superannuation Scheme to suitable applicant after probationary period.—Apply in writing giving particulars of age, experience and qualifications to Chief Civil Engineer, BRITISH RAILWAYS, Eastern Region, King's Cross Station, London, N.1.

SENIOR QUANTITY SURVEYOR Required in expanding Building and Civil Engineering Company for their Head Office.—Further particulars apply, in strictest confidence, The Director, JOHN KNOX (BRISTOL), Ltd., Winterstoke-road, Bristol, 3.

COMPETENT QUANTITY SURVEYOR Required for Professional Office in Leicester. Good salary. Lunch Vouchers.—Box 992, "The Builder."

LEADING London Contractors have a limited number of vacancies for SENIOR QUANTITY SURVEYORS in (a) London; (b) The Provinces, where accommodation will be provided, if necessary. Only men with a first-class record should apply, since the highest qualifications are required. Successful applicants will be offered salaries in the region of £2,000 per annum, plus commission and car allowance, and after a qualifying period opportunity will be given to join the Company's Superannuation Scheme.—Apply in confidence, stating age, previous experience and employers to Chief Personnel Officer, Box 1186, "The Builder."

QUANTITY SURVEYORS, recently qualified or having passed R.I.C.S. Intermediate Required in professional office in West Riding of Yorkshire. The positions are permanent and pensionable with opportunities for paid overtime.—Write stating age, experience and salary required to Box 1087, "The Builder."

QUANTITY SURVEYOR and ASSISTANT QUANTITY SURVEYOR Required by Chartered Architect and Quantity Surveyor. The former will be required to take charge of a small department and should be experienced in preparing bills of quantities and settling final accounts and the latter should be capable of taking-off minor works and site measuring.—Write stating age, qualifications, experience and salary required to PYLE AND SAINT, Thomas-street House, Cirencester, Glos.

QUANTITY SURVEYING ASSISTANTS

Applications are invited by the undersigned for the following appointments :—

(a) Senior Quantity Surveying Assistants.
(b) Junior Quantity Surveying Assistants.

Applicants for (a) should be experienced in the preparation of Bills of Quantities and will chiefly be engaged upon Works of Sewerage, Sewage Disposal and Water Supply.

Applicants for (b) should have some knowledge of Engineering or Building Construction, but considerable previous experience in Quantity Surveying is not essential.

The salary, in each case, will be appropriate to the experience and ability of the applicant, who should apply by letter stating age and experience, and giving the names and addresses of two referees who have a knowledge of his character and capabilities.

A. H. S. WATERS & PARTNERS,
Consulting Civil Engineers,
25 Temple Row, BIRMINGHAM, 2.

QUANTITY SURVEYOR age 25-30 Required for West London office of Building and Civil Engineering Contractors. Applicants must have had experience of taking-off for all trades, measuring variations and preparing interim valuations and final accounts. Pension scheme in operation.—Write in confidence, giving details of past experience, age and salary required, Q.S. PERCY BILTON, Ltd., Stonefield-way, S. Ruislip, Middlesex.

QUANTITY SURVEYOR for Building Contractor's office. Must have sound knowledge and experience of site measuring, variations, interim certificates, final accounts and taking-off material schedules. An excellent bonus scheme is in operation; Pension Scheme after probationary period. Permanent position; three weeks' annual holiday.—Apply only in writing to the Chief Quantity Surveyor, C. M. YUILL, Ltd., Villiers-street, West Hartlepool.

BUILDER'S SURVEYOR wanted for private Estate Development in West Kent.—Write giving age, qualifications, experience and salary to DURTNELLS GARDEN ESTATES, 18 St. John's-hill, Sevenoaks, Kent.

PLUMBING SURVEYOR/SUPERVISOR Required by London Plumbing Contractors, to take full charge of small works dept. (contracts up to £750) from estimating to final account stage without supervision. Holidays honoured; Saturday rota; superannuation scheme available.—Write stating age, experience, salary required.—Box 1312, "The Builder."

BUILDERS, SURVEYORS AND ESTIMATORS. Applications invited from young BUILDERS' TRADESMEN or BUILDERS' CLERKS who have studied Quantities to City and Guilds standard to fill vacancies in London Office of well-known organisation. Good salary, overtime, and pension scheme. Holiday arrangements honoured.—Box 1230, "The Builder."

BUILDER'S SENIOR SURVEYOR Required by London Building Contractor to take charge of Department. Must be fully experienced with sound knowledge of site measuring, variations, interim valuations, final accounts, etc., and capable of working on own initiative. Excellent opportunity for keen young man for permanent position in expanding organisation. Write giving full details of age, experience, technical education, previous positions held and salary desired.—Box 1231, "The Builder."

MEASURING SURVEYORS Required, capable of handling contracts from £5,000-£250,000, must be experienced in Taking-off and ordering materials from Bills of Quantities, interim certificates and final accounts.—Apply in writing RICHARDSON, Herbert House, Slade Green, Erith, Kent.

SENIOR SURVEYOR

required |

for Development Department of General Building Contractors engaged on contract and negotiated work in Home and Southern Counties Areas. Applicant is required to have experienced a thorough training in the industry, and to have obtained L.I.O.B. or other equal technical qualification. The applicant will be required to possess the necessary experience and initiative to take full charge of a Development Department. The work involves the preparation of schemes, taking off, working up, preparation of Bills of Quantities, assisting with estimating, and negotiating with clients, on varied types of work. Only a working knowledge of estimating is required. The position offers permanency with good conditions of employment and remuneration depending on experience and qualification. Age range preferred 28-35. Apply in confidence giving full details of qualification and experience to :

Box 1276, "The Builder".

BUILDING SURVEYOR, aged 22-28 years, Required for position in large industrial company in North Liverpool. Capable of preparing surveys of properties, plans of alteration, etc., supervising work.—Apply in writing stating experience and salary required to Box 1188, "The Builder."

EXPERIENCED BUILDING MAINTENANCE SURVEYOR Required in London Office of UNITED DAIRIES, Ltd.—Applications to be made to Chief Architect, 31 St. Petersburgh-place, Bayswater, W.2, stating age, previous experience and salary required.

SURVEYOR/TAKER-OFF Required for London office Reinforced Concrete and Hollow Tile Flooring specialists. Must be fully competent and able to draft and negotiate final accounts. Pension scheme; 5-day week.—Write fully details of experience, age and salary required, to Box 979, "The Builder."

SURVEYOR, aged 28 to 30, Required by London Contractors handling large-scale Industrial Developments throughout the United Kingdom. H.N.C. standard, willing to travel, good personality and adaptability essential. Contracts £50,000 to £1M. Pension scheme, good prospects of promotion. Full details to Box 1189, "The Builder."

PLUMBING SURVEYOR/SUPERVISOR Required by London Plumbing Contractors, to take full charge of small works dept. (contracts up to £750) from estimating to final account stage without supervision. Holidays honoured; Saturday rota; superannuation scheme available.—Write stating age, experience, salary required.—Box 1164, "The Builder."

MEASURING SURVEYOR Required by expanding Building Contractors for housing contracts. Car owner preferred. Duties consist of measuring and agreeing sub-contractors (labour only and labour and materials) interim valuations, final accounts, ordering materials, etc. Interesting position for keen, adaptable surveyor.—Please state age, experience, salary required and when available to Box 1190, "The Builder."

QUANTITY SURVEYORS Require MEASURING SURVEYOR in Wiltshire and Gloucester area for contracts. Must have complete knowledge of W.D. schedule. Preferably mobile. — Write stating age, details of experience and salary required, Box 1165, "The Builder."

CHIEF SOLITARY BONUS SURVEYOR Wanted by small firm, Bedford district. No promises, perquisites, pensions or promotion ladder: just push, perspiration, performance and pay.—Essential particulars to Box 0592, "The Builder."

BUILDING SURVEYOR Required by Westminster Chartered Surveyors. Good experience of dilapidations, derequisitioning claims, specification writing and maintenance supervison desirable. Sound knowledge of pricing essential. Practical rather than theoretical background. Age 30 to 45. Adaptable builder's estimator/surveyor would be considered.—Applications stating age, experience and salary required to Box DA3887, c/o WHITE'S, 72 Fleet-street, E.C.4.

MEASURING SURVEYOR/TAKER-OFF Required to assist Contracts Manager. Must be able to draft and negotiate final accounts. Pension scheme available. Write giving age, experience and salary required.—THE MOSAIC & TERRAZZO PRECAST COMPANY (STAINES), Ltd., Ashford-road, Ashford Common, Middlesex.

SITE SURVEYOR Required by Civil Engineering Contractors for interesting Contracts in Liverpool, with prospects of permanency within Organisation. Must be thoroughly cost-minded and capable of agreeing all Variations.—Apply Box 1272, "The Builder," stating age, experience and salary required.

EXPERIENCED BUILDER'S SURVEYOR Required for Head Office, S.E. London, combining site control, preparation and agreement for interim valuation, final accounts for Contracts £50,000-£100,000.—Apply stating age, details of experience and salary required to Box 1273, "The Builder."

ESTIMATING SURVEYOR Required for general building and civil engineering contracts, aged 30-45, with a North London Building Company. First class applicants only.—Box 1274, "The Builder."

WELL-KNOWN West England Builders Require SURVEYOR, fully experienced estimating, settling accounts. Permanency. Pension Scheme if suitable. Applications only from Experienced Surveyors stating salary, references. Strictly confidential. —Box 1275, "The Builder."

BUILDING SURVEYOR/ESTIMATOR, with experience of steelwork and drawing, aged 28/35, capable of preparing estimates, quotations, and working layout drawings with minimum supervision. Required for the Sales Development section of Northern Aluminium Company at Banbury.—Write giving full details of age, experience, salary required, etc., to Personnel Officer, NORTHERN ALUMINIUM CO., Ltd., Bush House, Aldwych, London, W.C.2.

COST AND BONUS SURVEYOR Required for sites in the London area. Opportunities for planning and work study training. Good salary and pension scheme.—Apply by letter stating age and experience, to THE UNIT CONSTRUCTION CO., Ltd., Faggs-road, Feltham, Middlesex.

Ford and Walton Ltd. require the following staff

Asistant Surveyors.

YOUNG MEN OF INITIATIVE AND CHARACTER WHO HAVE SOME SURVEYING EXPERENCE

Sub-Contracts Office Assistant.

Buying Office Asssistant.

Write stating age, experience, and salary required to

Personnel Manager, Ford and Walton Ltd., Walton House, Warton Road, London, E.15.

BUILDERS Require ASSISTANT SURVEYOR for final accounts on contracts up to £50,000. State past experience and salary required.—J. R. DEACON, Ltd., Lombard-street, Lichfield.

ASSISTANT SURVEYOR Required for general duties, to operate from Cheam Office; some experience in site measuring essential.—Applications in writing to M. J. GLEESON (CONTRS.), Ltd., Haredon House, London-road, N. Cheam, Surrey, with full details past experience, age and salary required.

ASSISTANT SURVEYOR Required by long-established firm of Building Contractors. Permanency and prospects for the right applicant. Must be competent estimator and capable of undertaking full surveyor's duties respecting medium-sized contracts. Superannuation Scheme operating.—Write, stating age, qualifications and salary required, to W. S. TRY LIMITED, High-street, Cowley, Uxbridge, Middlesex.

ADDITIONAL BUILDER'S ASSISTANT SURVEYOR Required for expanding small works and Jobbing Department, S.E. London. Knowledge of site measuring, estimating, preparation of accounts, and generally assist Senior Staff.—Apply, stating age, experience, and where gained, and salary required, to Box 1277, "The Builder."

ASSISTANT BUILDING SURVEYOR Required by a progressive, medium sized Building Contractors for their N.W. London office. Valuations, measurement of all trades and agreement of Subcontractors' accounts. Permanent and progressive position for right applicant.—Apply in writing, stating age, experience and salary expected.—Box 1309, "The Builder."

JUNIOR BUILDING SURVEYOR

required for expanding Builders Office at Watford, to assist at Estimating, Accounts, etc. Apply in writing, stating age and giving details of experience and salary required.

Box No. 1242, "The Builder"

STUDENT for building surveying (September) should have good general education (no trade bias). Maths and Science at "A" level an advantage. Five years' indenture after trial period. Training leads to O.N.C. and H.N.C. in building followed by L.I.O.B.—Write stating age and details of education to HAMMOND & MILES, Ltd., Scrafton-road Works, Ilford.

APPLICATIONS are invited for the following appointments at a site in Berkshire. Salary from £800-£1,000 a year: (a) ASSISTANT to measure electrical work as executed in workshops, offices, laboratories and similar buildings, together with main cable services. The duties also include pricing the work on a pre-priced schedule of rates and agreeing accounts with Contractors; (b) ASSISTANT to measure hot water, heating, ventilation and other similar services to workshops, offices, laboratories and other buildings of the same type. The duties also include pricing the work on a pre-priced schedule of rates and agreeing accounts with Contractors.—Write giving full particulars of experience, etc., and salary required to Box 1303, "The Builder."

TAKER-OFF Required in Branch Office in Preston, Lancs.—Apply A. S. WILSON AND PARTNERS, 8 Storeys-gate, Westminster, S.W.1.

ASSISTANT TAKER-OFF (final standard) Required by F. S. SNOW & PARTNERS. Five-day week, Luncheon vouchers, superannuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications, and salary required.

THE HELICAL BAR & ENGINEERING COMPANY LTD., 82 Victoria-street, S.W.1, Require the following staff for their London office.—TAKER-OFF to prepare Bills of Quantities for reinforced concrete work. ESTIMATOR for R.C. Structures, Hollow Tile floors, etc. Five-day week. Pension scheme. Luncheon vouchers given.—Apply in writing giving brief details of experience and salary required.

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyors' office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers.—Write stating age, experience and salary required, to Box 991, "The Builder."

TAKER-OFF Required by LESLIE G. DIGHT, F.R.I.C.S., 35 Portland-place, W.1. Salary about £900 p.a. Reply in handwriting stating age and experience.

TAKER-OFF, trained in Northern Method of Measurement, Required by London Chartered Quantity Surveyor. Salary about £900 p.a.—Reply stating age and experience to Box 1166, "The Builder."

CHARTERED QUANTITY SURVEYOR Requires ASSISTANT TAKERS-OFF for housing, hotels, factories and other works. Head Office, Southsea, Hants.—Box 1243, "The Builder."

CHARTERED QUANTITY SURVEYORS, S.W.1, with medium-sized practice, have vacancies for SENIOR and JUNIOR TAKERS-OFF.—Write stating age, experience and salary required, to Box 1244, "The Builder."

TAKER-OFF (preferably A.R.I.C.S.) Required by busy and expanding firm of Quantity Surveyors in South Midlands.—Write giving details of experience and salary required to Box 1225, "The Builder."

ASSISTANT Required for Materials Taking-off Department of large building firm in Cheam, Surrey. Must have good general knowledge of building and able to read all types of drawings. Holiday this year by arrangement.—Box 1226, "The Builder."

MANCHESTER. JUNIOR TAKER-OFF Required for Chartered Quantity Surveyor's office in Manchester. 5-day week.—Apply to ROBERT G. W. FORDE, A.R.I.C.S., 96 Mosley-street, Manchester 2.

SENIOR TAKER-OFF, qualified and experienced (A.R.I.C.S. preferred), Required by busy, old-established London firm of Chartered Quantity Surveyors. Commencing basic salary of £1,000-£1,200 according to experience (overtime available); 5-day week.—Write Box 1232, "The Builder."

JUNIOR TAKER-OFF (Inter. R.I.C.S. Standard) Required by C.Q.S. in West Sussex. Some experience essential. Five-day week. L.V.s.—Apply Box 1310, "The Builder."

REQUIRED immediately. Highly skilled TEMPORARY TAKER-OFF and experienced WORKER-UP in London. Temporary appointment. —Please reply giving full particulars to Box 1304, "The Builder."

TAKER-OFF, age 26-40, Required in London Chartered Surveyor's Office. Excellent prospects. Five-day week. Salary up to £1,500 according to ability and experience.—Box 1286, "The Builder."

TAKER-OFF, intermediate standard, Required in Chartered Quantity Surveyor's Office.—Apply stating age and salary required to ALFRED H. SPRAGUE & SON, 72, New Cavendish-street, W.1.

TAKER-OFF with about two years' experience of Taking-off, Required by small expanding firm of West End Chartered Quantity Surveyors. Salary £600-£750 p.a., according to experience.—Apply to Box 1268, "The Builder."

WORKER-UP Required in Quantity Surveying section of West End Architects' office.—Reply to Box 1155, "The Builder," giving details of age, experience and salary required.

WORKER-UP Required in South Wales for a large site contract by a firm of Chartered Quantity Surveyors.—Write stating age, experience and salary required to Box 1156, "The Builder."

JUNIOR WORKER-UP, with eighteen months' experience in the profession, Required from next September by London Chartered Quantity Surveyors. —Apply, giving details of education, experience and salary required, to Box 1193, "The Builder."

WORKER-UP Wanted for busy Q.S. Office in West Country. Opportunities for taking-off will be given after period of 1 year. Permanent position. 5-day week. Overtime available. State age and experience, etc.—Box 1196, "The Builder."

CAPABLE WORKER-UP Required in London Chartered Quantity Surveyors' office. Appointment with prospects of advancement according to capability. Apply in writing stating age, office and examination experience and salary required to Box 956, "The Builder."

JUNIOR WORKER-UP Required for London office of national firm of specialist sub-contractors, age 18/20. Excellent opportunities for advancement.—Write stating experience and initial salary required to Box 1194, "The Builder."

YOUNG ABSTRACTOR Required by West London firm of painting contractors. Preparation increased costs, dayworks. Good salary; luncheon vouchers; superannuation.—Reply to Box 1195, "The Builder."

WORKER-UP with five years' professional experience Required by F. S. SNOW & PARTNERS. Five-day week, luncheon vouchers, superannuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications and salary required.

SENIOR WORKER-UP with taking-off experience Required for small professional office in Middlesbrough. Good prospects; luncheon vouchers.—Reply stating age, experience and salary required.—Box 1245, "The Builder."

WORKER-UP Required for permanent position in London Quantity Surveyors' office, Holborn area. Five-day week. Pension and Life Assurance scheme.—Write, stating age, experience and salary required. Own staff notified.—Box 1233, "The Builder."

EXPERIENCED WORKER-UP Required in professional office in Westminster.—Reply, giving age, experience and salary required, etc., to Box 1234, "The Builder."

REQUIRED IMMEDIATELY: WORKER-UP, with minimum 4 years' experience, for all types of building work for Deal and Canterbury offices.—Reply giving full particulars and, if selected, when able to commence: A. W. WEST, F.R.I.C.S., 43 Queen-street, Deal.

WORKER-UP, age 26-40, Required in London Chartered Surveyor's Office. Excellent prospects. Five-day week. Salary up to 1,000, according to ability and experience.—Box 1285, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyor with small West End practice.—Write stating age, experience and salary required.—Box 1287, "The Builder."

ENGINEERS

A progressive opportunity is offered to young, keen Engineers. The duties will consist in setting out foundations reinforced concrete construction and all external services on a large variety of Building and Civil Engineering Contracts and opportunity to become Sub/Agent and Agent within a reasonable time for the right men. Applicants should be between the ages of 26-36 and possess H.N.C. and at least five years' continuous training in such work. Good terms and conditions will be offered the selected applicant. Applications should be addressed to

Wilson LOVATT & Sons Ltd.,
Clarence Street, Wolverhampton.

TECHNICAL ASSISTANT Required in Estimating and Surveying Department of well-known London Contractors with offices in Westminster.—Write please to Box 1197, "The Builder."

TECHNICIAN REQUIRED

To assist: Principal Foreman in the control and supervision of direct and contract labour employed on building maintenance and minor new works. Measurement of some of the minor new works will be necessary.

A recognised building trades apprenticeship is required and a good knowledge of building techniques, and experience as general foreman engaged on maintenance and new works. Ability to supervise term contracts based on a schedule of rates, and ability to measure and use the schedule is necessary. Possession of the O.N.C. is highly desirable.

SALARY: £905—£1,085.

Contributory Superannuation scheme. A house or substantial assistance with house purchase will be available for married officers living beyond daily travelling distance.

POSTCARDS for application forms to the Senior Recruitment Officer at Atomic Weapon Research Establishment,

Aldermaston, Berkshire.

Please quote ref. 2227/118.

SITE ENGINEERS Required immediately for Contracts in London area and Home Counties. Good prospects for young men.—Write in confidence, The Secretary, FITZPATRICK & SON (CONTRACTORS) Ltd., 455 Old Ford-road, Bow, London, E.3, stating age, experience, salary required, etc.

YOUNG ENGINEER studying Structural or Civil Degree Required for Contracts Dept., Specialist Civil Engineering Contractors. Permanency with good prospects.—Apply stating age, salary and training, THE LONDON FERRO-CONCRETE Co., Maxted-road, Hemel Hempstead, Herts.

JUNIOR TECHNICAL ASSISTANT Required to generally assist Senior Estimating Staff in busy S.E. London Builder's Office. Splendid opportunity for young person to gain further qualifications and first-class experience.—Write, stating age, present experience and salary required to Box 1278, "The Builder."

TECHNICAL ASSISTANT Required by firm of National Contractors, in their Estimating and Surveying Department. Good prospects.—Write giving details of experience, etc., to Box 1316, "The Builder."

SITE ENGINEERS Required for building Contracts in the London area. Must be experienced in the use of theodolite and level and capable of working on own initiative.—Applications giving details of age, salary, and experience to the Structural Engineer, TERSONS, Ltd., 4 Dollis Park, Finchley, London, N.3.

CLERK OF WORKS Required for Laboratory project near Manchester. Commencing July, 1959, duration approximately 15 months. Previous experience of laboratory work essential. Salary by arrangement. Interviews London or Manchester.—Write Box 909, "The Builder."

ASSISTANT CLERK OF WORKS Required for new constructional work at the Imperial College of Science and Technology, South Kensington. Salary approximately £850 per annum. Some experience of mechanical services is essential.—Application giving age, full details of experience, salary required and names of two referees, to NORMAN & DAWBARN, Architects and Consulting Engineers, 7 Portland-place, W.1, by 10th June, 1959.

ESTIMATOR

For Small Works Department of London West-End Builder. Contracts up to £8,000. Age 25/35. Able to take off own quantities. Excellent prospects for the right man. Non-contributory Pension Scheme. State experience and salary range contemplated.

Box No. 1199, "The Builder"

SHOPFITTING SPECIALISTS with permanent showroom. Require YOUNG MAN with knowledge of estimating, able to take site measurements and prepare sketch designs. Considerable scope for ambitious man.—Box 1157, "The Builder."

ESTIMATOR for Sanitary fittings. An opportunity to develop specialist knowledge in a progressive field with ALFRED GOSLETT AND COMPANY LIMITED.—Write stating age, experience and salary required to 127-131 Charing Cross-road, W.C.2.

FLOORING ESTIMATOR Required, must be fully experienced in Wood Block, Strip, and Decorative Tiling. Good salary paid to right man.—Telephone: INGREBOURNE 43925-7.

ESTIMATOR/SURVEYOR for small works department. Will work in conjunction with the contracts manager and be primarily responsible for estimating, surveying, variations and final accounts on work ranging from jobbing up to about fifteen thousand pounds in value. Remuneration is on salary and bonus basis and could lead to permanent and pensionable position. Must be car driver.—COURTNEY & FAIRBAIRN Ltd., 377 Albany-road, Camberwell, S.E.5.

ESTIMATOR

Senior post vacant offering variety and interest with well-known London firm of Building Contractors. Permanent and progressive positions for man with sound experience and capable of taking charge of section.—Full personal details, experience, and salary required, in confidence, to Box 1223, "The Builder."

SENIOR ESTIMATOR

First class man required by London Building Contractor for tenders up to £1,000,000 in value. Age 35–45 years. Remuneration around £1,500 p.a. according to ability. Details to

Box 1202 "THE BUILDER"

Old established Building and Civil Engineering Contractors require two

SENIOR BUILDING ESTIMATORS

experienced in pricing all types of construction up to £1m. Salary range £1,500, good conditions, superannuation.

Applications should contain full details past experience and connections in chronological order and be addressed to

Box 1201 "The Builder."

(All replies will be treated in confidence, present staff advised.)

SENIOR ESTIMATOR Required for large Woodworking organisation. Must be capable of preparing competitive tenders from Bills of Quantities and specifications and drawings for mass-production and specialised joinery. The position is permanent. Salary offered will be commensurate with experience and qualifications. Contributory pension scheme in operation. Assistance with housing if required.—Reply in confidence, furnishing full particulars of training, experience, qualifications, age and when available, to: THE ROTHERVALE MANUFACTURING Co. Ltd., Woodhouse Mill, Near Sheffield.

ESTIMATOR/SURVEYOR Required with experience in pricing Bills of Quantities, preparing Valuations for Interim Certificates and Final Accounts. Permanent position with good prospects. Write stating age, experience and salary required or 'phone for appointment.—L. & W. WHITEHEAD LIMITED, 169 Clapham-road, S.W.9. Telephone: Reliance 3331.

HOME COUNTIES PUBLIC COMPANY Requires ESTIMATOR with experience in pricing Joinery. Age not more than 35. Progressive position with good prospects for right applicant.—Box 1198, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required by old-established Islington Building Contractors.—Write stating age, experience, salary expected, etc., to Box 981, "The Builder."

SENIOR ESTIMATOR

age 28/45 required for West End Offices of National Contractors. Considerable experience of all types tendering needed and accustomed to preparing price analysis and build-up. Good salary and first class opportunities for progress for right man. Assistance with housing will be given if necessary. Pension Scheme. Reply Box No. 1282, "The Builder".

EXPERIENCED ESTIMATOR Required by long established building firm in the South-West Country. Contracts of all sizes and types handled.—Write in first instance to box number giving full particulars and salary required. Accommodation available.—Box 1200, "The Builder."

PLUMBER, HOT WATER AND HEATING ESTIMATOR/SUPERVISOR Required, able to drive.—Write, stating age, experience and salary required, to T. HOLDAWAY & SONS, Ltd., Westbury, Wilts.

REQUIRED, ASSISTANT ESTIMATOR, experienced in costing and preparation of Final Accounts. Excellent opportunity for young man.—R. E. STYLES, Emberbrook 4945.

REQUIRED

EXPERIENCED SHOPFITTING ESTIMATOR

Applications with full details of experience by letter to:—

Managing Director,

HICKMAN LTD.

North Circular Rd., N.W.2.

ESTIMATOR-SURVEYOR wanted by medium-sized old-established firm of Building Contractors engaged on all types of work. Applicants must be experienced in preparing estimates from bills of quantities and from drawings and specifications; able to handle contracts from enquiry to final account. House available.—Apply giving age, experience and salary required to E. C. HUGHES, Ltd., Albion Works, Wokingham, Berks.

ASSISTANT ESTIMATOR

required by the manufacturers of 'Middlesex' Prefabricated Timber Buildings. Excellent opportunity for young man with experience and sound technical knowledge to join present harmonious team. Good salary, pension scheme, etc., awaits the right applicant for this permanent position with a bright future. Apply J. E. Lesser & Sons Ltd., Green Lane, Hounslow, Middlesex.

ESTIMATOR/SURVEYOR Required, experienced in small works and medium-sized contracts.—Full details of experience, age, etc., to C. JENNER & SON, Ltd., 11 North-street, Ashford, Kent.

ESTIMATOR Required with surveying experience for general building work. Must have sound knowledge of building-up prices.—Write stating age, experience and salary required to GALBRAITH BROS., Ltd., Crayford Bridge, Crayford, Kent.

ESTIMATOR Required in Road Surfacing Department of Midland Region Office of a National Company. Training will be given to suitable person. Permanent pensionable position, and existing holiday arrangements honoured.—Written applications only in first instance to Office Manager, THE GENERAL ASPHALTE CO., Ltd., 56, Milk-street, Birmingham, 5.

JOINERY ESTIMATOR. An experienced Joinery Estimator Required to handle building and housing estimating work.—Write full particulars to RUTHERFORD, GEAKE & CO., Ltd., Hanworth Trading Estate, Feltham, Middlesex.

BUILDING ESTIMATOR

Wilson LOVATT & Sons Ltd.,

invite applications for a Senior Estimator suitably trained possessing I.B.E., or L.I.O.B., qualifications and having at least five years' uninterrupted experience in estimating for all types of building work. The appointment is permanent in the Head Office of an old established Company operating nationally. Applications will be treated in strict confidence and should state education, training, qualifications, experience, age and an indication of salary expected, addressed to **Clarence Street, Wolverhampton.**

REQUIRED, ESTIMATOR capable of getting out Bills of Quantities, Final Accounts, etc. Excellent salary.—R. E. STYLES. Emberbrook 4945.

PLASTERING SPECIALISTS have a vacancy for ASSISTANT ESTIMATOR and MEASURING SURVEYOR; resident in London. Contributory Pension Scheme operating.—Apply stating age, experience and salary required to PLASTERING LIMITED, Concanon-road, Acre-lane, Brixton, London, S.W.2.

YOUNG ASSISTANT ESTIMATOR/SURVEYOR Required by Croydon Building Contractors, able to estimate and control small works, and some new building from enquiry to final account. Able to take-off quantities from drawings when required. —Write stating experience, age, and salary expected. —Box 1279, "The Builder."

ESTIMATOR Required, covering varied range from jobbing up to £30,000; new and repair work; conversions, extensions, etc. to factories, houses, L.C.C. schools, local authorities and private architects; and estate maintenance in the London area, mainly north of Thames. Experienced with Bills of Quantities, take-off own quantities and prepare specifications, etc., for small schemes. Salary by arrangement, with good prospects to energetic man who proves himself by results. Please write in first instance stating outline history, age, etc., and approximate salary which is asked for only as a guide to experience.—Box 1280, "The Builder."

The UNIT Construction Co., Ltd.
Have a vacancy for an

ASSISTANT ESTIMATOR

experienced and capable of acting as Assistant to the Chief Estimator.

The scope of the Company's work covers all types of contracting, including large housing contracts, multi-storey dwellings, schools, churches and industrial development.

Good salary, commensurate with age and experience. Canteen and sports facilities.

Apply in writing, giving full details to:

The Personnel Officer, Unit Construction Co., Ltd.,
North West Region,
Speke Boulevard, Liverpool, 24.

ASSISTANT ESTIMATOR AND SURVEYOR Required by London Builders. Permanent job. Please reply, giving age, full details of experience and salary required.—Box 1281, "The Builder."

ASSISTANT Required for estimating department and general office duties of builders' business, South East Kent. Some experience necessary. Suitable opening for young man completing National Service.—Box 1288, "The Builder."

BUILDER'S ASSISTANT ESTIMATOR SURVEYOR Required for West Herts contractors.—Please apply stating age, experience, and salary required to Box 1305, "The Builder."

BUILDING CONTRACTING

SENIOR EXECUTIVE

A Senior Executive, not over 45 years of age, is required for a Building Contracting business in the North of England. The successful candidate will be responsible to the Managing Director for all constructional activities in the Company, with a turnover of up to £2m. per annum.

A wide range of experience in building construction in a senior managerial capacity in this country is required. Practical experience in the application of planning, cost control, and other modern management techniques will be a strong recommendation.

This is a permanent position. For the man who proves himself and has the necessary personal qualities, a seat on the Board would be offered after two years' service. The commencing salary contemplated is up to £2,500 per annum. A Non-Contributory Pension Scheme is in operation, and a car will be provided. Assistance with housing will be given if required.

Applications, giving experience, educational and technical qualifications and personal details, which will not be disclosed to our client without the candidate's consent, should be addressed to Urwick, Orr & Partners Limited, who have been asked to advise in connection with this appointment, at **Urwick House, 14 Hobart Place, London, S.W.1,** quoting reference A/B/1303 on the envelope.

CONTRACTOR handling various classes of building and c.e. work wishes to appoint a man to specialise in the setting of bonus targets and to introduce other methods of increasing productivity. Practical building experience more important than bonussing experience.—Box 1203, "The Builder."

CONTRACTS MANAGER Required for flat and housing estates, borders of Berkshire, Middlesex and Surrey. Permanent position. Write stating age, salary and experience.—Box 977, "The Builder."

CONTRACTS MANAGER Required to organise and run several medium-sized contracts. Must be keen and willing to undertake all duties in connection with the works in hand. Car provided. Give full particulars of qualifications, experience and salary required to Box 1204, "The Builder."

CONTRACTS MANAGER OR AGENT to undertake the running and planning of a number of contracts, aggregate £750,000 per annum. Fullest details in writing of qualifications, experience and salary required. Car provided. Only keen, energetic man should apply to Box 1205, "The Builder."

OFFICE MANAGER Required for London office of national firm of specialist sub-contractors. Must have good general office experience, knowledge of wages, buying, etc., and be able to control and organise office staff up to 40 personnel. Only conscientious men seeking a permanent position need apply.—Write stating age, experience and salary required to Box 1206, "The Builder."

PAINTING CONTRACTORS with widespread National interests Require men of outstanding business acumen as future MANAGING DIRECTORS to take complete charge of new businesses to be opened in many localities.

Applicants should be between 30 and 36. Preference will be given to applicants who are Surveyor trained and who are in possession of some technical or professional qualifications. A previous knowledge and experience of measuring painting work is absolutely essential. Applications in writing are requested from individuals who consider they have sufficient commercial ability to justify salaries and bonus in excess of £2,000 per annum.—Box 1207, "The Builder."

CONTRACTS MANAGER

for Building Department of C. J. Sims Ltd., 2 Victoria Street, London, S.W.1.

Applicants must be fully experienced in up-to-date methods and be able to take complete control of the building side of a building and civil engineering business, doing both small work and contracts in the £100,000 to £200,000 range.

Age 30–40.

Write in confidence, stating age, full details of experience and salary required.

ASSISTANT CONTRACTS MANAGER Required for progressive East London Contractors. Applicants should have L.I.O.B. or H.N.C., and have had some experience in supervision of building contracts. Younger man with surveying background would however be considered.—Box 1208, "The Builder."

ASSISTANT BUILDERS' MANAGER for London, must be joinery trained, capable to take details in every respect, middle age not objected to. Write full particulars of experience (in chronological order), stating age, salary required and when free.—No application considered without above information.—Box 1283, "The Builder."

APPLICATIONS are invited for appointment as the GENERAL MANAGER of R. PERT & SON, Ltd., of Montrose, progressive, medium-sized, building contractors with subsidiaries for plumbing, electrical and pre-cast work. Essential Qualifications: age 40-50, qualified as engineer or master builder, experience of house or general building and civil engineering construction, and senior executive experience of obtaining and controlling work financially. Desirable to have practical knowledge of production planning and work study, as well as direct executive relations with a Board in the formulation and execution of policy. The position carries a starting salary of £1,750 with bonus on results, seat on the Board, car and a house on rental.—Write in confidence, stating age, education and experience to C. A. Francis, BUILDING ADVISORY SERVICE, 41 New Cavendish-street, London, W.1.

CONTRACTS MANAGER

required to work from Head Office.

Applicants must be fully experienced in modern building techniques, should be cost conscious, prepared to work as a member of a planning team, and able to carry out Contracts to a tight programme.

This is a permanent, pensionable appointment and presents an excellent opportunity to join an Organization where there are opportunities for those willing and able to accept responsibility.

Write in confidence stating age, experience and where gained, and present salary to the Secretary,

GEORGE CALVERLEY & SONS (CONTRACTORS) LTD.
BUILDING & CIVIL ENGINEERING CONTRACTORS,
EVINGTON VALLEY ROAD, LEICESTER.

HUMPHREYS LIMITED

199, Knightsbridge, London, S.W.7
require the following staff

ASSISTANT CONTRACT MANAGER: To assist Contract Manager on all types of contracts. Must have had previous experience on work of magnitude and complexity.

ESTIMATOR: To assist Chief Estimator on a wide range of building and civil engineering work, must have had experience on substantial projects with reputable firms and be capable of producing detailed make-ups based on modern plant usage and techniques.

Substantial salaries, good conditions, superannuation, etc., for the right men.

TRAINEES: Young men 16–20, with not less than five G.C.E. subjects at "O" level who wish to enter the building and civil engineering industry, are offered the opportunity of training in contract organisation, estimating, surveying, production or purchasing.

Please give details of education, experience, when available, and salary required, in strictest confidence. Envelopes should be addressed to Personnel Department, Humphreys Ltd., and marked 'Private and Confidential'.

ORGANISATION and METHODS OFFICER

A well-known Public Company engaged in building and Estate Development requires a senior executive experienced in the organisation and methods to be followed in administration and also on building sites.

The executive would be required to advise the directors on the most economical and efficient methods to be adopted in the whole field of administration and also in the methods to be employed on contract locations.

Applicants, who should have had considerable experience in Organisation and Methods work, should be in the age group 30/45 and should preferably possess some professional qualification.

The appointment will carry a salary fully commensurate with qualification and experience.

Applications should be addressed in the first instance to **Box E.10, Layton-Bennett, Billingham & Co., 23, Blomfield Street, London, E.C.2.**

ALLEN FAIRHEAD AND SONS LTD.

invite applications for a post in the Contracts Department, carrying responsibility for the pre-planning of contracts, contract programmes and co-ordination between the Contracts and Joinery Departments. Applicants should possess the following:—

1. H.N.C. in Building Construction.
2. A sound practical experience of building sites.
3. Experience of contract planning.
4. A keen, analytical mind.

This is a senior post and a commensurate salary will be paid. A pension scheme is in operation.

Applications, which should state age, present salary and experience, should be addressed to:

The Contracts Manager,
ALLEN FAIRHEAD AND SONS LTD.,
Sydney-road, Enfield.

PLANT AND TRANSPORT MANAGER

required for Head Office duties by substantial firm of North London building contractors. Applicants should have held senior responsibilities for contractors' plant and must possess the requisite technical and practical knowledge needed for the control and maintenance of a wide variety of plant which includes tower cranes, excavators, concrete pumps. Experience in organising plant records and clerical procedure is also essential. Age range 35–45. A recognised engineering qualification would be an advantage. Salary commensurate with age and qualifications. Pension Scheme. Written applications in confidence giving full details of age, experience and present salary to

H. Fairweather & Co., Ltd., Hyde Works, St. James's Lane, Muswell Hill, London, N.10

BUILDING MATERIALS MANAGER

An attractive opening occurs at Doncaster as MANAGING DIRECTOR of a Company engaged in the supply of building materials. In addition to the opportunities which this trading affords, the Managing Director will control sections specialising in roofing and the supply of scaffolding. This is a well established position associated with an expanding group of companies and offers considerable scope for an energetic and experienced executive to make a satisfying career.

The post is pensionable and commands a substantial salary and a car. Applications are invited in strict confidence from men under 45 years of age. Please write in the first instance to the

Personnel Administrator,
THE CEMENTATION CO., Ltd.,
20 Albert Embankment,
London, S.E.11.

WANTED for Precast Concrete works, a first class TECHNICAL ASSISTANT to take off details from customers' orders and set out on sketches on Works Order for manufacture.—Box 1159, "The Builder."

CONTRACTOR handling jobs in £10,000 to £20,000 class, also estates. Requires an ASSISTANT TO THE BUILDING SUPERVISOR, who is responsible for overall management of sites and labour force of about 80. Good opportunity for advancement to a well-trained man in a progressive firm. Bedfordshire.—Please write fully, Box 1201, "The Builder."

OLD-ESTABLISHED (LONDON) FLOORING CONTRACTORS require TRAINEE MANAGER

Age approximately 23/30. Excellent prospects and interesting work with good commencing salary for keen young man with drive and initiative. Previous flooring experience **not** essential.

Please write in strictest confidence, with details of age and past experience, to

Box 1265, "The Builder"

BUILDER'S ASSISTANT Required by Private Housing Estate Development Company.—Write giving age, qualifications, experience and salary required to DURTNELL GARDEN ESTATES, Ltd., 18 St. John's-hill, Sevenoaks, Kent.

YOUNG MAN Required in London office of Roofing Contractors checking and later preparing estimates and final accounts, extracting quantities, etc. Must be good at figures and willing to become versed in all aspects of Roofing contract business.—Box 1247, "The Builder."

BUYER

Wilson LOVATT & Sons Ltd., Clarence Street, Wolverhampton, have a vacancy for a buyer to assist the Chief Buyer. Must have at least five years' experience in obtaining material markets and Sub-trades from the tender stage onward. Experienced with Bills of Quantities, Specifications and Contract documents. Ages between 26 to 40.

SALES PROMOTION ASSISTANT Required as TECHNICAL CORRESPONDENT by leading manufacturer of prefabricated buildings (Home Counties). Essential characteristics are architectural or building trade background, flair for selling, sound executive sense with ability to write concise and fluent technical sales letters of a high standard.—Send full details of education, career, salary, etc., to Box 1246, "The Builder."

ASSISTANT BUYER Required. Civil Engineers and Contractors. Age 25 to 35. Sound knowledge Building Trade Materials, Suppliers, Prices, etc. Good prospects capable man with drive and initiative.—Write Secretary, LONDON FERRO-CONCRETE Co., Maxted-road, Hemel Hempstead, Herts.

BUYER

Experienced man required who is prepared to take off quantities from drawings or abstract from Bills of Quantities and place own enquiries and orders.

Experience with the preparation of Sub-Contract documents would be helpful.

The office is situated in the South-West suburbs convenient to Croydon, Epsom and Kingston. Salary according to experience, but in the range of £900 per annum. Interview can be given outside normal office hours.

Apply in writing with a brief description of experience to **Box No. 934, c/o Geo. Murray (Advg.) Ltd., Columbia Hse., Aldwych, London, W.C.2.**

J. L. GREEN & VARDY LTD.

have a vacancy for an

EXPERIENCED SALESMAN

with connection amongst Architects and other users of high quality architectural joinery, panelling, partitioning, Office and special Contract furniture. Apply with full details of age, experience, salary, etc. to **Director: Green & Vardy Ltd., 79 Essex Road, N.1.**

YOUNG MAN Required to assist Buyer, some experience or knowledge of the trade desirable.—Apply HALSE & SONS, Ltd., Builders, 5 Chapelhill, Woolwich, S.E.18, stating age and salary required.

ASSISTANT BUYER

required for large Building Contractors. Sound knowledge of Merchants and Materials essential.

Salary about £750 plus substantial bonus after twelve months. Write, stating age, qualifications, experience and present salary to :—

PERSONNEL MANAGER,
WATES LTD.,
1258/60 London Road,
Norbury, S.W.16.

BUILDER (Streatham, S.W.16) Requires MANAGING CLERK with experience of estimating and costing for decorative and maintenance work. Permanent position and good prospects for suitable applicant. Please write stating age, previous experience, present salary and when available.—Box 1158, "The Builder."

COST CLERK Required for Contractor's office, East London. Previous experience essential.—Write stating age, experience and salary required.—Box 1209, "The Builder."

FEMALE WAGES CLERK Required for London office of national firm of specialist sub-contractors, age 19/20.—Write stating experience and salary required to Box 1210, "The Builder."

WAGES AND COST CLERK Required for busy industrial office. Salary £9 p.w. according to experience.—UNIVERSAL SHOPFITTING Co., Lower Sydenham, S.E.26. SYD 7061.

CLERK, male (19-23) Required for Joinery Works office. Must be accurate at figures and a knowledge of timber calculations advantageous. Canteen on premises.—Write stating age, experience, and salary required, to Staff Manager, GASKELL & CHAMBERS (LON), LTD., 109-115 Blackfriars-road, S.E.1.

TRENT CONCRETE, Ltd., of Colwick, Nottingham, require a SENIOR INVOICE CLERK and ASSISTANT ESTIMATOR preferably not more than 30 years of age. This Company is engaged in the manufacture of Prestressed Concrete Structures and Reconstructed Stonework and it is essential that applicants have experience of this trade or the Building trade. Good wages and bonus payable together with the benefits of a Superannuation and Life Assurance Scheme. Holiday rights respected.—Apply in writing to The General Manager.

BUILDER'S CLERK to send out enquiries to Sub-Contractors and Suppliers for estimating, and assist in Cost and Order Departments. Accommodation may be available.—Reply stating age, experience and salary required, The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

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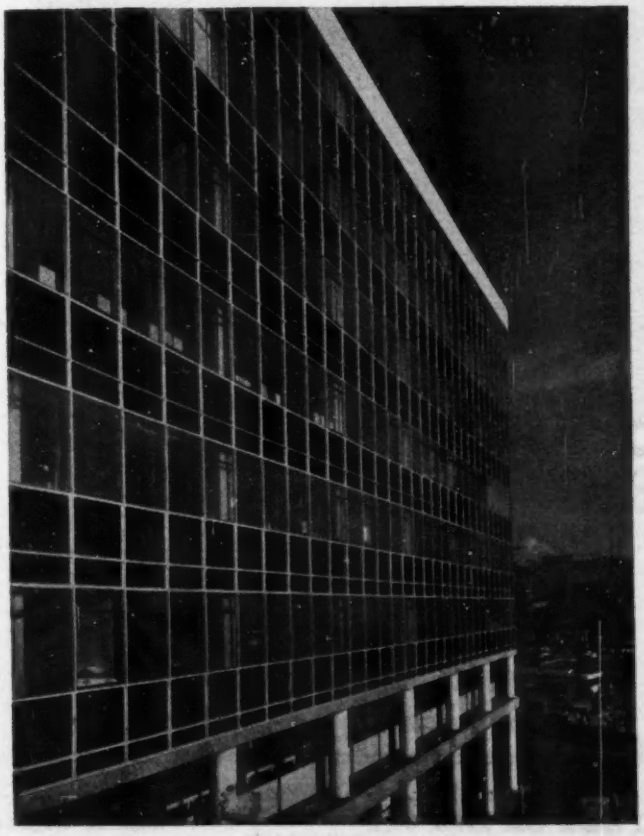

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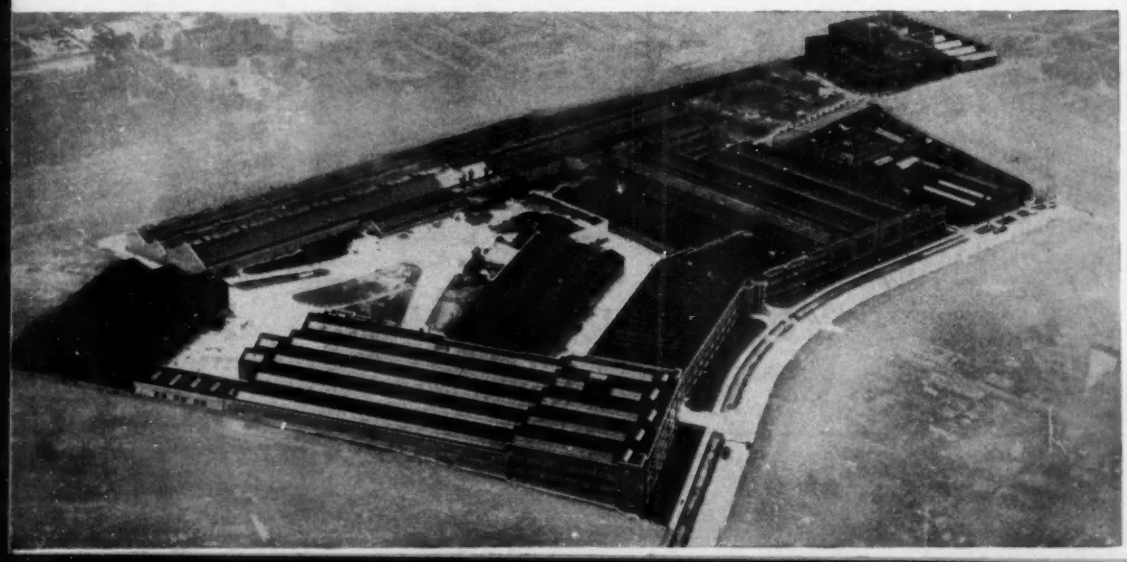
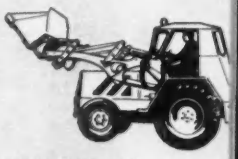


LOADMASTERS 1000,2000,3000, 4W.D. SERIES



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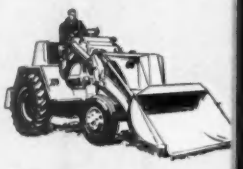
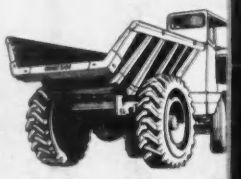
LOADMASTER 800TC



LOADMASTER 500

LOADMASTER 550 'HI-LOAD'



'HI-SPEED' DUMPER

NEW SELF-PROPELLED 'HOPTO'

TAS/CD.580